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CONSOLIDATED
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SURVEY

Number 53.

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Prepared by

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CONSOLIDATED TRANSLATION SURVEY

FOR MAY 1962

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CONSOLIDATED TRANSLATION SURVEY

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This Survey is prepared monthly by Foreign Documents Division, CIA, from lists received through cooperation of US government agencies and includes translations of such agencies, private industry, universities, research institutions, and commercial translation organizations. It is a compilation of foreign documentary projects, completed or started during the month preceding this publication.

Translations are listed by area and subject category. Scientific projects are grouped as a section regardless of geographic area. Title in English, author, foreign language title of source of material, date and date of publication, and publication identification of the completed project are given when available.

Some of the above details may be unavailable on projects listed "in process." New projects in process will be listed only once, their subsequent listing being made when they are reported completed. Projects in process, i.e., not completed as of the date of this Survey, are noted with an asterisk (*), and when available, a project-control or "in-process" number is noted in parentheses following the title.

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AF

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Air Force Cambridge Research Laboratories
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United States Air Force
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Bedford, Massachusetts
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AGI

American Geological Institute
2101 Constitution Avenue, NW
Washington 25, DC

AGU

American Geophysical Union
1515 Massachusetts Avenue, NW
Washington 5, DC

AIBS

American Institute of Biological Sciences
2000 P Street, NW
Washington 6, DC

AIEE

American Institute of Electrical Engineers
Special Subscription Department
41 East 28th Street
New York 16, New York

AIP

American Institute of Physics
335 East 45th Street
New York 17, New York

Amer Math Soc

American Mathematical Society
190 Hope Street
Providence 6, Rhode Island

Amer Meteorol Soc

The American Meteorological Society
45 Beacon Street
Boston 8, Massachusetts

AMS - Army Map Service (see ACSI)

ARS

American Rocket Society
500 Fifth Avenue
New York 36, New York

ASLIB

Association of Special Libraries and Information Bureau
4 Palace Gate
London, W 8, England

AWRE - (see AEC)

BCIRA

British Cast Iron Research Association
Bordesley Hall
Alvechurch, Birmingham
England

BISI

British Iron and Steel Institute
4 Grosvenor Gardens
London, SW 1, England

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CB

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31 Wright's Lane
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Council for Scientific and Industrial Research
The Head
Information Division
PO Box 395
Pretoria, Africa

CSIRO

Commonwealth Scientific and Industrial Research Organization
314 Albert Street
East Melbourne, C 2, Victoria
Australia

CTRA

The Coal Tar Research Association
Oxford Road
Somersal, Leeds, England

CTT

Columbia Technical Translations
5 Vermont Avenue
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DSIR

Department of Scientific and Industrial Research
Records Section
Charles House
5-11 Regent Street
London, SW 1, England

Elsevier Publishing Co.

Spuistraat 110-112
Amsterdam, The Netherlands

ERDL

Engr Res Dev Lab/Fort Belvoir (see ACSI)

FRL

Feltman Research Labs.
Dover, New York

FTD - Foreign Technology Division (see AF)

Harper & Bros.

- 49 East 33rd Street
New York 16, New York

HBT

Henry Bratcher Technical Translation
PO Box 157
Altadena, California

HO - Hydrographics Office (see Navy)

ID - Intelligence Document (see ACSI)

ISA

Instrument Society of America
313 Sixth Avenue
Pittsburgh 22, Pennsylvania

JPLAI

Jet Propulsion Laboratory, Astronautics Information
California Institute of Technology
Pasadena, California

JPRS

Joint Publications Research Service

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Department of Commerce
Office of Technical Services
Washington 25, DC

Maritime Adm

Maritime Administration
Office Services
GAO, 5th and G Streets, N.W.
Washington, DC

MEB

Mark E. Burgunker
541 West 113th Street
New York 25, New York

Navy

Department of Navy
Office of Naval Intelligence
Washington 25, DC

NIH

Department of Health, Education, and Welfare
National Institutes of Health
Librarian
Bethesda 14, Maryland

NLL

National Lending Library
for Science and Technology
Boston Spa, Yorkshire, England

NMS - Navy Medical School (see Navy)

ONI - Office of Naval Intelligence (see Navy)

OTS - Office of Technical Services (see Dept of Commerce)

Pat Off

Patent Office
Scientific Library
14th and Constitution Avenue, NW
Washington, DC

PERA

The Information Manager
Production Engineering Research Association
Melton Mowbray
Leicestershire, England

PP

Pergamon Press
122 East 55th Street
New York 22, New York

Primary Sources

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RAND

RAND Corporation
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RAPRA

Rubber and Plastics Research Association of
Great Britain
Shawbur
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Review of Russian Geology
Box 6665, College Station
Duke University
Durham, North Carolina

SIAM

Society for Industrial and Applied Mathematics
Box 7541
Philadelphia 1, Pennsylvania

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Taylor and Francis Ltd.
Red Lion Court, Fleet Street
London, E. C. 4, England

The Textile Institute

The Textile Institute
10 Blackfriars Street
Manchester 3, England

UK AEA

United Kingdom Atomic Energy Authority
Development and Engineering Group
Risley, Warrington, Lancs, England

319th MI Bn - 319th Military Intelligence Battalion
(see ACSI)

500th INTC Gp, SIRA - 500th Intelligence Corps Group, SIRA
(see ACSI)

525th MI Gp - 525th Military Intelligence Group
(see ACSI)

PROJECTS REPORTED

FOR MAY 1962

USSR

Economic

Shuttleless Weaving and Spindleless
Spinning, by P. A. Vorob'yev, 4 pp.
RUSSIAN.

JPRS 13778

The Analysis of Economic Activity for
Communications Agencies, by
S. A. Malkin, 109 pp.
RUSSIAN, bk, Analiz Khozyaystvennoy
Deyate'nosti Predpriyatiy Svyazi,
1961.

JPRS 13534

Chernovitskaya Oblast, by V. V. Onykiyenko,
25 pp.
RUSSIAN, bklt, Chernivets'ka Oblast',
1960, pp 54-56, 77-79, 88-101.

JPRS 13541

Achievements of Science and Engineer-
ing and Progressive Innovations in
Industry and Construction, by
G. F. Balandin, G. I. Pogodin-Alekseyev,
75 pp.
RUSSIAN, bk, Dostizheniya Nauki i Tekhniki
Perevodov Opyt v Promyshlennosti i
Stroitel', No 3, 1960, pp 95-101, 102-146.
9676523

FTD-TT-61-220

The Economics of Ferrous Metallurgy,
by N. P. Bannyy, V. B. Brodskiy, et al.
(DC-6776).
RUSSIAN, bk, Ekonomika Chernoy
Metallurgii SSSR, 1960, pp 183-235,
360-454, 520-552.

*JPRS

Economics of Material-Technical Supply,
edited by E. Yu. Lokshin, 517 pp.
RUSSIAN, bk, Ekonomika Material'no-
tekhnicheskogo Snabzheniya, 1960,
pp 1-512.

JPRS 13696

USSR

Economic (Contd)

Gas Supply of the National Economy
and Technical Progress, by
I. Bokserman.
RUSSIAN, rpt, Gazosnabzheniye Narodnogo
Khozyaystva i Tekhnicheskiy Progress,
1961, pp 5-18, 31-56, 80-91.

*ACSI I-1313
ID 2196122

The Geography of USSR Heavy Industry,
by P. N. Stepanov, 249 pp.
RUSSIAN, bk, Geografiya Tyazheloy
Promyshlennosti SSSR, 1961, pp 1-152.

JPRS 13704

Forms and Instructions for 1959
Input/Output, (SF-2248).
RUSSIAN, bk, Instruktsiya po Zapolneniy
Blankov Edinovremennogo Ucheta Zatrata
na Proizvodstvo Produktsii dlya Promy
shlennyy' Predpriyatiy za 1959 god po
Formam No 1 i 2, 48 pp.

*JPRS

Capital Construction in the USSR,
(DC-6771).
RUSSIAN, bk, Kapital'noye Stroitel'stvo
v SSSR, 1961, pp 1-280.

*JPRS

Economic Management of Industrial
Concerns in the USSR, by S. Ye. Kamenitser,
(SF-2228).
RUSSIAN, bk, Khozyaystvennoye Rukovodstvo
Promyshlennym Predpriatiyem v SSSR, 1961,
286 pp.

*JPRS

The Kursk Magnetic Anomaly: The Largest
Iron-Ore Base of the USSR, by
B. G. Vaynshteyn, 89 pp.
RUSSIAN, bk, Kurskaya Magnitnaya
Anomaliya--Krupneyshaya Zhelezorudnaya
Baza SSSR, 1961, 108 pp.

JPRS 13757

Light and Food Industry USSR, 1959-1965,
by V. P. Zotov, 142 pp.
RUSSIAN, bk, Legkaya i Pishchevaya
Promyshlennost' SSSR 1959-1965, 1959,
pp 1-191.

JPRS 13786

USSR
Economic (Contd)

Magnitogorsk Metallurgical Combine,
by V. I. Kazarinova, V. I. Pavlichenkov,
10 pp.
RUSSIAN, bklt, Magnitogorsk, 1961,
pp 125-148.

JPRS 13535

Innovations in Machine-Building Technology
(Chapters II & III), by F. P. Malikov,
50 pp.
RUSSIAN, bk, Novoye v Tekhnologii Mashino-
stroyeniya, Chelyabinsk, 1958, pp 17-50,
83-92. 9676524

FTD-TT-61-332

The FT-2 Panoramic [Extreme Wide-Angle]
Camera, (DC-6777).
RUSSIAN, bklt, Panoramnyy Fotoapparat
"FT-2", 1959, pp 3-20.

*JPRS

Pelletizing Iron Ores, by A. I. Nikitin,
(SF-2250).
RUSSIAN, bk, Pellatirovaniye Zheleznykh
Rud, pp 70-87.

*JPRS

Long Term Planning for Comprehensive
Utilization of Water, Forest, and Fodder
Resources in the Lower Amur Area.
RUSSIAN, rpt, Perspektivy Kompleksnogo
Ispol'zovaniya Vodnykh, Lesnykh i
Kormovykh Resursov Nizhnego Amura,
1960, pp 1-19, 102-130, 145-170,
Encl No 1 to R-77-62, 13 Feb 1962.

*ACSI I-1333
ID 2194398

Prospects of the Oil and Gas Industry
in the Komi ASSR, by A. Ya. Krems,
21 pp.
RUSSIAN, bk, Perspektivy Neftyanoy i
Gazovoy Promyshlennosti Komi ASSR,
1957, pp 4-7, 9, 11, 12, 15-32.

JPRS 13658

The Underground Gasification of Coal,
by I. A. Turchaninov, (SF-2223).
RUSSIAN, bk, Podzemnaya Gazifikatsiya
Ugley, 1961, pp 43-50.

*JPRS

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The Most Important Industrial and Administrative Centers of the Southern Part of the Western Subregion of Poltavskaya Oblast, by O. M. Laponchov, O. D. Kachanov, 5 pp.
RUSSIAN, rpt, Poltavs'ka Oblast', 1959, pp 80-87.

JPRS 13597

On Methods and Systems of Measuring Labor Productivity, by Vidrevich, (SF-2245).
RUSSIAN, bk, Proizvoditel'nost' Truda v Tekstil'noy i Legkoy Promyslennosti SSSR, 1960, pp 112-122.

*JPRS

Features of the Distribution of Ferrous Metallurgy in USSR Socialist Construction, by R. S. Livshits, 26 pp.
RUSSIAN, bk, Razmeshcheniye Chernoy Metallurgii SSSR, Chap 11, 1958, pp 76-105.

JPRS 13583

Tallin, by Uno Kammal, Vello Tarmisto, 72 pp.
RUSSIAN, bklt, Tallin, 1960, pp 1-80.

JPRS 13540

The Centralized Control of Technological Processes (Automation Library No 40), by I. M. Shenbrot, (DC-6799).
RUSSIAN, pamphlet, Tsentralizovanny Kontrol Tekhnologicheskikh Protsessov (Biblioteka po Avtomatike), No 40, 1961, 95 pp.

*JPRS

Laying and Maintenance of Railroad Lines on Reinforced Concrete Ties, by Nalichayev, V. F. Fedulov.
RUSSIAN, rpt, Ukladka i Soderzhaniye Puti na Zhelezobetonnykh Shpalakh, 1961, 69 pp.

ACSI I-1432
ID 2198537

USSR
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Consolidated Indicators of Value of Buildings and Communications Installations for Reevaluation of Fixed Capital, by N. I. Monakhov, (SF-2230).
RUSSIAN, bk, Ukrupnennykh Pokazateley Stoimosti Zdaniy i Sooruzheniy Svyazi dlya Pereotsenki Osnovnykh Fondov, No 25, 1959, pp 1-158.

*JPRS

Vladivostok, USSR -- 1860-1960 a Socio-Economic Study, by D. P. Belykh, 304 pp.
RUSSIAN, bk, Vladivostok, 1960, pp 3-12, 87-271.

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Status of Various USSR Power Stations, 5 pp.
RUSSIAN, np, 1961.

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New Soviet Automotive Industry, 29 pp.
RUSSIAN, per, 1962.

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For Completion of Complex Mechanization of Excavation Operations, by I. P. Borodachev, 11 pp.
RUSSIAN, per, Avtomobil' Dorogi, No 1, (231), 1962, pp 4-9.

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RUSSIAN, per, Avtomobil' Dorogi, No 1 (231), 1962, pp 16-19.

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First All-Union Scientific-Technical Conference of Seaweed Industry (17-21 October 1960), by G. K. Barashkov, 5 pp.
RUSSIAN, per, Botan Zhur, Vol XLVI, No 3, 1961, pp 463-465.

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Tasks of the Science of Accounting in the USSR at the Present Stage, by A. Sumtsov, 12 pp.
RUSSIAN, per, Bukhgalterskiy Uchet, No 12, 1961, pp 30-40.

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Analysis of the Reduction of Differences
in Wages of Low- and Highly-Paid
Personnel in the Electrical Engineering
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RUSSIAN, per, Byul Nauch Informatsii:
Trud i Zarabotnaya Plata, No 12, 1961,
pp 30-39.

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pp 39-44.

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With Children, by N. Rimashevskaya,
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VM-2KM Electric Vacuum Furnace for
Pulling Monocrystals, by
V. Yu. Zhvirblyanskiy, D. M. Bankov,
3 pp.
RUSSIAN, per, Byul' Tekh-Ekon Informatsii,
No 9, 1961, pp 6, 7.

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Selected Articles From the Russian
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- No 11, 16 Oct 1961, p 38.
Bratskaya GES and the Development
of Production Forces in Eastern
Siberia, by V. Krotov, 4 pp. JPRS 13533
- 23 Oct 1961.
Manometer Instrument Plant is
Improving Its Output, by
P. Lachugin, 3 pp. JPRS 13627
- Energetics and Turbines, by
L. Shubenko-Shubin, 4 pp, (p 16). JPRS 13533
- No 18, 4 Dec 1961.
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V. Pauchenko, 6 pp, (pp 14-16). JPRS 13559
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Chemical Industry in Leningrad, by
V. Rumyantsev, 6 pp, (p 20). JPRS 13559
- 11 Dec 1961.
Plastics and Technical Progress,
by V. Titov, 11 pp, (pp 10, 11). JPRS 13559
- Polymers in Machine Building, by
A. Kogan, 8 pp, (pp 14, 15).
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Technology, by P. Prikhodchenko,
7 pp, (p 16).
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by G. Vladimirov, 5 pp, (p 20).
- Cyclorubber and Other New Materials,
5 pp, (p 21).

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Materials With Assigned Properties,
by Ye. Bogoyavlenskiy, 6 pp, (p 22).
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5 pp, (p 23).
- No 20, 18 Dec 1961, pp 30. JPRS 13587
Large-Payload Truck-Trailer Trains,
by G. Zimelev, L. Bronshteyn, 5 pp.
- No 21, 25 Dec 1961, pp 6, 7. JPRS 13716
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- No 2, 8 Jan 1962, p 6. JPRS 13482
We Need More Economists in Planning
Institutes, With Greater Authority
and Responsibility in Actual Con-
struction Projects, by M. Cheltsova,
11 pp.
- No 3, 15 Jan 1962. JPRS 13675
Delegate More Authority to the
Director of the Tula Harvester
Plant, 3 pp, (p 2).
- Capital Construction in the USSR,
(1918-1960), 33 pp, (pp 26-29). JPRS 13482
- No 4 (25), 22 Jan 1962. JPRS 13482
Distinctive Characteristics of the
Next Twenty Years, by N. Oznobin,
F. Shevyakov, 16 pp, (pp 4, 5).

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No 4 (25), 22 Jan 1962. JPRS 13482
The Construction of Enterprises and
the Cost of Equipment, by A. Libkind,
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of Enterprises -- An Important Reserve
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The Central Statistical Administration
Replies by Practical Decisions, 10 pp,
(p 14).

The Machine in the Engineer's Office,
by A. Antonov, 9 pp, (p 19).

No 5 (26), 29 Jan 1962.
The Progress of Science and Technology
Is a Task for the Whole Nation, by
P. Abroskin, 25 pp, (pp 6, 7). JPRS 13482

Mobilization of Production Reserves
by the Metallurgists of the
Zaporozhstal' Plant, by
Ye. Abramchenko, 11 pp, (p 8). JPRS 13560

Liquidating the Dissipation of
Resources in Capital Construction
Projects Is a Complex Problem, by
B. Smekhov, 5 pp, (pp 10, 11). JPRS 13482

Without Technical Control Sections,
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Selected Articles From the Russian
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5 Feb 1962.

Orsk-Khalilovo Combine Is Making
Poor Use of Its Naturally Alloyed
Ferronickel Ores, by L. Gol'denberg,
4 pp, (p 11).

JPRS 13768

Construction in the Ukrainian Ferrous
Metallurgical Industry Proceeds at a
Rapid Rate, by P. Rozenko, 3 pp, (p 16).

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Giprostoindustriya Institute and the
Plant Imeni Kalinin, by N. Bushe,
6 pp, (p 19).

JPRS 13765

12 Feb 1962, p 43.

Ultrasonic Treatment in Metallurgy,
by A. Utshev, 3 pp.

JPRS 13784

19 Feb 1962.

Development and Role of the Non-
productive Sphere in Raising the
Productivity of Social Labor, by
M. Solodkov, 11 pp, (p 18).

JPRS 13695

Problems of Efficient Use of Mineral
Resources of the Urals, by V. Pervago,
11 pp, (pp 26, 27).

JPRS 13784

No 9 (30), 26 Feb 1962.

Motor Vehicle Plant Imeni Likhachev,
10 pp.

JPRS 13655

Supply and Demand of Construction
and Road-Building Machines, by
N. Grechin, 11 pp, (p 29).

JPRS 13765

2 Apr 1962. (DC-6775).

The Rate of Growth and Progress
in Power Engineering, by I. Novikov.

*JPRS

USSR
Economic (Contd)

The Use of Time by Collective Farmers,
by L. Lenkova, 13 pp.

RUSSIAN, per, Ekon Sel'skogo Khoz,
No 1, 1962, pp 43-48.

JPRS 13695

Wholesale Prices on New Types of
Industrial Output, by I. Vinyukov,
15 pp.

RUSSIAN, per, Ekon Sovet Ukrains,
No 5, 1961, pp 78-83.

JPRS 13482

D021 Diesel Train, by S. A. Lapushkin,
R. P. Titova, 8 pp.

RUSSIAN, per, Elekt i Teplov Tyaga,
No 11, 1961, pp 32-34.

JPRS 13587

Alternating-Current Electric Locomotive
of K Series With Silicon Rectifiers,
by I. P. Il'in, 9 pp.

RUSSIAN, per, Elekt i Teplov Tyaga,
No 11, 1961, pp 35-37.

JPRS 13587

New Standards of Technological Design-
ing of Thermo-Electric Power Stations,
by B. O. Loshak, 7 pp.

RUSSIAN, per, Elektricheskiye Stants,
No 11, 1961, pp 7-10.

JPRS 13533

Scientific-Technical Problems Connected
With Carrying Out Lenin's Idea of
Electrification, 15 pp.

RUSSIAN, per, Elektricheskiye Stants,
No 1, 1962, pp 2-5.

JPRS 13717

Creation of Material and Technical
Base of Communism Verses Soviet Power
Engineering, by M. A. Sarkisov, 9 pp.
RUSSIAN, per, Elektrichestvo, Nov 1961,
pp 1-6.

JPRS 13533

Status of Soviet Energetics Prior to
22d Party Congress, 5 pp.

RUSSIAN, per, Energetik, No 10, 1961,
pp 1-4.

JPRS 13533

Summary of Fuel Consumption at the Rayon
Thermo Electric Power Stations in 1960,
by G. S. Lifshits, 5 pp.

RUSSIAN, per, Energetik, No 10, 1961, pp 9-11.

JPRS 13533

USSR
Economic (Contd)

Type TGM-94 Boiler Aggregate, 3 pp.
RUSSIAN, per, Energetik, No 10, 1961,
pp 39, 40.

JPRS 13533

Soviet Power Machine-Building Prior
to the 22d Congress of the CPSU, 9 pp.
RUSSIAN, per, Energo-Mashinostroyeniye,
No 10, 1961, pp 1-4.

JPRS 13533

An Increase in Effectiveness of Use of
Basic Funds Is an Important Reserve for
Growth of Production, by N. Bunin, 24 pp.
RUSSIAN, per, Finansy SSSR, No 12, 1961,
pp 27-34.

JPRS 13482

Material-Technical for Construction and
Control of Stroybank, by A. Ferberg,
18 pp.
RUSSIAN, per, Finansy SSSR, No 12, 1961,
pp 35-40.

JPRS 13482

Yakutiya.
RUSSIAN, per, Geografiya v Shkole,
Jan/Feb 1962, pp 19-25.

500th INTC Gp, SIRA
Tr No 105938

Water Engineering Projects for the
Seven-Year Period 1959-1965, by
I. T. Vovchenko, 7 pp.
RUSSIAN, per, Gid i Meliorat, Vol XI,
No 2, 1959, pp 7-13. 9099501

OTS 61-11430
PL-480

Irrigation and Watering of Land in
the USSR and Prospects for Development,
by K. K. Shubladze, 17 pp.
RUSSIAN, per, Gid i Meliorat, No 10,
1961, pp 3-12.

JPRS 13769

USSR
Economic (Contd)

Selected Articles From the Russian
Periodical Gornyy Zhur.

No 1, 1962.

Drilling Rigs for Open-Cut Mining
Operations, by T. F. Kharlamov,
M. A. Abramson, 8 pp, (pp 58-62).

JPRS 13697

Scientific Technical Conference on
Open-Cut Mining in Kazakhstan, 14 pp,
(pp 73, 74).

JPRS 13767

No 2, 1962.

Basic Trends in Development of
Facilities for Mining and Concentra-
tion of Ore, by M. S. Varich,
19 pp, (pp 4-9).

JPRS 13765

Concentration of Fluorite Ore in Heavy
Suspensions, by I. V. Tyryshkin,
G. I. Bayanov, (p 75).

JPRS 13767

Selected Articles From the Russian
Newspaper Gudok.

JPRS 13587

26 Nov 1961.

The Past and Future of Railroad
Transport in the USSR, 20 pp.

2 Dec 1961.

Stages in the Modernization of the
Railroads, by N. Mordvinkin, 6 pp.

17 Dec 1961.

Problems of Transport Modernization --
Time, Speed, by M. Verigo, A. Zolotarskiy,
7 pp.

19 Dec 1961.

Improving the Shortcomings in the
Manufacture of Reinforced Concrete
Poles, by V. Kustov, 4 pp.

USSR
Economic (Contd)

Selected Articles From the Russian
Newspaper Gudok. (Contd)

JPRS 13587

24 Dec 1961.
For a Unified Transport Echnology,
by A. Komarov, 8 pp.

27 Dec 1961.
The Transport System of West Siberia,
by B. Ivanov, 5 pp.

The Electro-Slag Remelting Process, by
B. Paton.
RUSSIAN, np, Izvestiya, 22 Dec 1961.

JPRS 13560

For Improved Agricultural Machinery,
by S. Karpenko, 5 pp.
RUSSIAN, np, Izvestiya, 1 Feb 1962.

JPRS 13675

The Tractor of the Future, by
V. Krivosheyev, 5 pp.
RUSSIAN, np, Izvestiya Nedelya,
17/23 Dec 1961, p 2.

JPRS 13675

Scientific Report on the Development
of Transportation in Irkutskaya Oblast,
by A. Vorobyev, 3 pp.
RUSSIAN, per, Iz Sibir Otdel Ak Nauk
SSSR, No 6, 1961, pp 131, 132.

JPRS 13608

Production and Use of Molecular Sieves
in the USSR, by A. V. Agafonov,
M. M. Budinin, B. A. Onusaitis, et al.
RUSSIAN, per, Khim Prom, No 7, 1961,
pp 26-30.

NLL Tr Bulletin
Vol 4, No 1, 1962

Developing the Network of Motion
Picture Theaters and Installations,
6 pp.
RUSSIAN, per, Kinomekhanik, No 1, 1962,
pp 2-4.

JPRS 13627

USSR
Economic (Contd)

Selected Articles From the Russian
Periodical Kommunist.

- No 13, Sep 1961, pp 49-56.
Electrification Is a Mainstay
of Building the Economy of a
Communist Society, by
I. Krasnov, 4 pp. JPRS 13533
- No 2, 1962, pp 32-39.
Urgent Tasks of Mechanization
and Automation of Production,
by M. Rakovskiy, 20 pp. JPRS 13695
- No 4, 15 Mar 1962, pp 90-100.
The Economic Laws of the
Building of Communism, by
A. Pashkov, 17 pp. JPRS 13503
- No 6, Apr 1962.
To a New Upsurge of Agriculture,
by T. Koval', 14 pp, (pp 30-37.) JPRS 13774
- Clericalism and Its Role in the
Ideology and Policy of Imper-
ialism, by M. Mchedlov, 19 pp,
(pp 112-122.)
- Cascade of Vakhshskaya GES, by
B. Yunusov, 3 pp.
RUSSIAN, np, Kommunist Tadzhikistana,
24 Nov 1961. JPRS 13533
- News From the Minsk Motor Vehicle
Plant, by I. N. Demin, 7 pp.
RUSSIAN, per, Mashinostroitel', No 9,
1961, pp 6, 7. JPRS 13706
- Instrument Making is the Basis of
Automation, by I. K. Petrov, 13 pp.
RUSSIAN, per, Mekh i Avtomat Proiz,
No 10, 1961, pp 10-15. JPRS 13627

USSR
Economic (Contd)

Classifying Industrial Enterprises
by Optimal Capacity, 4 pp.
RUSSIAN, per, Mekh i Avtomat
Proiz, No 1, 1962, p 55.

JPRS 13674

Cement Hauling Trucks With Load
Lifting Capacity of 7-12 Tons,
by I. F. Grafov, 4 pp.
RUSSIAN, per, Mekh Stroitel,
Mar 1961, pp 20, 21. 9676346

FTD-TT-62-153

Complex Mechanization of
Earthmoving Operations, 9 pp.
RUSSIAN, per, Mekh Stroitel',
No 3, 1962, pp 1-3.

JPRS 13697

Results and Prospects in
Metallurgy, by S. M. Fillipov.
RUSSIAN, per, Metallurg, No 2,
1962, pp 1-4.

JPRS 13560

High-Calorific Fuel for Open-
Hearth Furnaces, by I. B. Polyak,
5 pp.
RUSSIAN, per, Metallurg, No 2,
1962, pp 26, 27.

JPRS 13560

In the Institute of World
Economics and International
Relations, Academy of Sciences
USSR, by K. Popov, 7 pp.
RUSSIAN, per, Mirovaya Ekon i
Mezh Otnosheniya, No 3, 1961,
pp 151-153.

JPRS 13097

Labor Productivity in the USSR and
the US, by D. Karpukhin, 25 pp.
RUSSIAN, per, Mirovaya Ekon i
Mekh Otnosheniya, No 1, 1962,
pp 56-67.

JPRS 13695

USSR
Economic (Contd)

Bourgeois Econometric Models, by
V. Shlyapentokh, 18 pp.
RUSSIAN, per, Mirovaya Ekon
Mezhdunarodnyye Otnosheniya,
No 1, 1962, pp 83-94.

JPRS 13614

The Moscow Carburator Plant, by
V. Naydish, L. Smirnov,
N. Potapenkov, 5 pp.
RUSSIAN, np, Moskov Pravda,
22 Nov 1961.

JPRS 13706

Centralization of Repairs
Without a Center, by P. Khodorov,
4 pp.
RUSSIAN, np, Moskov Pravda,
17 Jan 1962.

JPRS 13699

Electrification of Tselinyy
Kray, by V. Levin, 8 pp.
RUSSIAN, per, Narod Khoz Kazakh,
No 11, 1961, pp 69-74.

JPRS 13716

Mechanizing and Automating
Engineering and Management Work,
by M. Dukhovnikov, 6 pp.
RUSSIAN, per, Narod Khoz Kazakh,
No 12, 1961, pp 83-86.

JPRS 13614

Selected Articles From the Russian
Periodical Narod Khoz Uzbek.

No 8, 1961, pp 52-55.
Elevate the Level of Economic
Work on Public Motor Transport,
by Sh. Mursalimov, 6 pp.

JPRS 13587

No 11, 1961, pp 12, 13.
Industrial Development in
Uzbekistan, 5 pp.

JPRS 13674

USSR
Economic (Contd)

Selected Articles From the
Russian Periodical Narod
Khoz Uzbek. (Contd)

No 1, 1962, pp 40-45.
Planning of Labor Productivity
in the Textile Industry, by
G. Vol, 16 pp.

JPRS 13695

Feb 1962, pp 43-48.
Machine Building in Uzbekistan
in 1962, by Z. Nazirov, 10 pp.

JPRS 13674

New Functions of the Computer
Station, by A. Katz, 11 pp.
RUSSIAN, per, Nauchno-Tekhnicheskiye
Obshchestva SSSR, No 12, 1961,
pp 28-30.

JPRS 13482

Selected Articles From the Russian
Periodical Plan Khoz.

No 1, 1962, pp 57-61.
On Calculating the Social Product
and National Income of the Ukrainian
SSR, by A. Moskvin, 19 pp.

JPRS 13482

No 2, 1962.
Ways to Increase Steel Production to
250 Million Tons per Year, by A.
Leskov, 16 pp, (pp 17-27.)

JPRS 13651

Replacement of Metallurgical Reserves,
by L. Zusman, 15 pp, (pp 28-37.)

JPRS 13651

The Interbranch Balance Sheet and Its
Use in Planning, by L. Berri, F. Klotsvog,
et al, 19 pp, pp 51-62.

JPRS 13614

Concerning the Economic Effectiveness
of Agricultural Production, by Ye.
Khlebutin, 7 pp, pp 87-90.

JPRS 13614

USSR
Economic (Contd)

Making Room for Converters in Metallurgy is Profitable and Progressive, by S. Afanas'yev, 7 pp.

RUSSIAN, np, Pravda, 13 Dec 1961.

JPRS 13633

Criticisms Concerning "ZIL-130", by N. Petrov, 9 pp.

RUSSIAN, np, Pravda, 28 Jan 62.

JPRS 13655

The Agricultural Equipment Supply System in Moldavia, by V. Mashtaler, 5 pp.

RUSSIAN, np, Pravda, 31 Jan 1962.

JPRS 13675

The Soviet Karakul, by A. A. Kaplin, 9 pp.

RUSSIAN, per, Priroda, 1961, pp 105-109.

CSIR Tr No 200

Selected Articles From the Russian Periodical Sotsial Trud

No 6, 1961, pp 11-16.

Raise Labor Productivity and Improve Management of Enterprises, by Ye. Alekseyev, 7 pp.

JPRS 13549

No 1, 1962

Distribution According to Work in the Period of Large-Scale Construction of Communism, by S. Shkurko, 20 pp, (pp 41-49).

JPRS 13695

Defects in the System of Awarding Bonuses to Engineers and Technicians, by V. Barokhman'skiy, 4 pp, (pp 125-127.)

JPRS 13695

USSR
Economic (Contd)

Selected Articles From the Russian
Periodical Sotsial Trud (Contd)

- No 2, 1962.
Reproduction of the Labor Force on
an Expanded Scale During the
Extensive Construction of
Communism, by N. Zabelin, 22 pp,
(pp 25-35.) JPRS 13695
- Use of Mathematical Statistics
Methods in Calculating Norms of
Numbers of Working People, by
A. Pavlenko, 17 pp, (pp 86-92.) JPRS 13695
- Method for Determining the
Number of Auxiliary Workers in
Production, by M. Semenova,
G. Dubkov, 6 pp, (pp 93-95.) JPRS 13695
- Improving Quality of Production
and Increasing Savings of Labor,
by A. Minayev, S. Aptekar', 15 pp,
(pp 106-114.) JPRS 13762
- The Irkutsk "Avtotraktodetal'"
Plant, by M. Kruter, 10 pp.
RUSSIAN, per, Sovet Profsoyuzy,
No 22, Nov 1961, pp 13, 14. JPRS 13706
- Preparing for the New Season, by
M. Bekel'man, 15 pp.
RUSSIAN, per, Sovet Torgovlya,
No 2, 1962, pp 12-15. JPRS 13524
- Transportation and Communications,
by N. A. Dvoryankov, 7 pp.
RUSSIAN, per, Sovremenny
Afghanistan, 1960, pp 158-164,
(CALL NO. DS 356 U48.) Army Map Service

USSR
Economic (Contd)

Azovstal' Research Projects, by
M. T. Bul'skiy, M. P. Sidel'kovskiy.
RUSSIAN, per, Stal', Vol VIII, 1956,
pp 746-748.

BISI 2232

Selected Articles From the Russian
Newspaper Stroitel' Gazeta.

6 Oct 1961. JPRS 13533
Foundation of Development of
Electrification, by Ya. Finogenov,
3 pp.

15 Nov 1961, p 2. JPRS 13533
Overall Outlook, by F. Sapozhnikov,
4 pp.

28 Jan 1962. JPRS 13717
Turn in the Power Units Rhythmically,
5 pp.

21 Feb 1962. JPRS 13717
Speed Up the Technical Progress in
Electric Network Building, by
I. Filimonchuk, 4 pp.

New Panel and Girder Carriers, by
Yu. Nebov, B. Markus, 4 pp, (p 4.) JPRS 13706

25 Feb 1962, p 2. JPRS 13673
The Prospects of Cement Research,
by D. Yageman, 7 pp.

The Pending Conference on Construction,
3 pp. JPhS 13697
RUSSIAN, per, Stroitel' i Dorozhnyye
Mashiny, No 2, 1962, pp 1-2.

Unification of Wheeled Construction, and
Road Machines, by D. I. Pleshkov, 6 pp.
RUSSIAN, per, Stroitel' i Dorozhnyye
Mashiny, No 2, 1962, pp 2-7. JPRS 13697

USSR
Economic (Contd)

Progress in Design of Autograders of Orel Road-Machine Building Plant, by L. A. Antipov, B. S. Lezhepekov, et al, 4 pp.

RUSSIAN, per, Stroitel' i Dorozhnyye Mashiny, No 2, 1962, pp 7-9.

JPRS 13697

The Production Plans of the Building Materials Industry, 6 pp.

RUSSIAN, per, Stroitel' Materialy, No 1, 1962, pp 1, 2.

JPRS 13673

Modernization and Expansion of Currently Operating Enterprises as a Major Potential for Increasing the Effectiveness of Capital Investments, by Ya. A. Rekitar, 10 pp.
RUSSIAN, per, Stroitel' Materialy, No 1, 1962, pp 3-6.

JPRS 13673

Improve the Quality and Increase the Quantity of Building Materials, 5 pp.

RUSSIAN, per, Stroitel Materialy, No 2, 1962, pp 1, 2.

JPRS 13673

Construction of Foundations Above the Depth of Freezing for Houses With a Restricted Number of Storeys, by V. F. Vol'sov, T. Ya. Ivan'ko.
RUSSIAN, per, Stroitel Prom, No 7, 1958, pp 16-18.

NLL RTS 1927

Lumber Carriers of the Volgoles Class, by V. P. Gudimovich, 8 pp.
RUSSIAN, per, Sudostroyeniye, No 11, 1961, pp 1-4.

JPRS 13587

Activities of the Scientific and Technical Society of the Shipbuilding Industry, the All-Union Conference on Crucial Problems in the Designing of Supertankers, by S. I. Logachev, 6 pp.
RUSSIAN, per, Sudostroyeniye, No 11, 1961, pp 76, 77.

JPRS 13587

USSR
Economic (Contd)

The Conference on the Problem of the Application of Hydraulic Transmissions,
by B. G. Stupak, Va. A. Fedotov, 3 pp.
RUSSIAN, per, Sugostroyeniye, No 11,
1961, p 80.

JPRS 13587

Over-All Automation and Mechanization of Welding in Production of Passenger Cars,
by S. I. Rusakov, 8 pp.
RUSSIAN, per, Svaroch Proiz, No 10,
1961, pp 6-8.

JPRS 13706

We Will Put Into Practice the Decisions of the 22nd Party Congress,
11 pp.
RUSSIAN, per, Tekstil Prom, No 12, 1961,
pp 1-4.

JPRS 13517

New Norms for Amortizing the Fixed Assets on the Textile Industry, by V. V. Fedorov,
10 pp.
RUSSIAN, per, Tekstil Prom, No 12, 1961,
pp 5-8.

JPRS 13517

Selected Articles From the Russian Periodical Teploenergetika.

No 12, Nov 1961, pp 3-7.
Prospects of Development of Electric Power in USSR, by I. T. Novikov, 7 pp.

JPRS 13533

No 1, 1962, pp 3-7. (SF-2229)
Prospects of the Fuel Balance in Power Generation in the Next 20 Years, by D. I. Maslakov.

*JPRS

USSR
Economic (Contd)

Selected Articles From the Russian
Periodical Teploenergetika. (Contd)

No 2, 1962.

Ways of Increasing the Rate and
Lowering the Cost of Construction
of Major Thermal Power Plants, by
S. P. Goncharov, 13 pp, (pp 3-8.)

JPRS 13717

Economic Effectiveness of Making
Larger Kcs Units and Sets, by
V. V. Bolctov, A. E. Gel'tman, 16 pp.
(pp 8-15.)

Selected Articles From the Russian
Periodical Torf Prom.

JPRS 13624

No 5, 1958.

Contemporary Conditions for the
Development of Peat Electric
Power Plants, by V. S. Yermakov,
G. B. Pekelis, 14 pp. (pp 1-7.)

Prospects for the Utilization of
Peat in the Urals and in West
Siberia, 20 pp, (pp 19-27.)

No 7, 1958.

The Peat Industry at the 41st
Anniversary of the Great
October Socialist Revolution,
by B. I. Strukov, 8 pp, (pp 1-4.)

Some Results of Reorganization of
the Administration of the Peat
Industry in the Yaroslavl' Economic
Region, by V. I. Dyuzhin, 4 pp,
(pp 5, 6.)

On the Competitiveness of Peat Fuel,
by A. G. Pal'tsev, 6 pp, (pp 14-16.)

USSR
Economic (Contd)

Selected Articles From the Russian
Periodical Torf Prom. (Contd)

JPRS 13624

No 1, 1959.
Peat Industry Makes Further Progress,
12 pp, (pp 1-6.)

The Direction of Development of the
Peat Industry of the Belorussian
SSR, by G. D. Gorbutovich, 7 pp,
(pp 7-10.)

Concerning Directions of the
Development of Peat Extraction
and Utilization of Peat in the
Ural Mountains, by M. I. Zababurin,
P. P. Spirin, 5 pp, (pp 11, 12.)

Products From the Treatment of
Peat and Their Utilization in the
National Economy, by Kh. I. Rivkina,
9 pp, (pp 18-21.)

No 2, 1959.
Products Obtained During the Treatment
of Peat and Their Utilization in the
National Economy, by Kh. I. Rivkina,
9 pp, (pp 8-12.)

Ways of Cutting Down Capital
Investments for the Transporta-
tion of Peat, by M. A. Stoylik,
6 pp, (pp 12-14.)

No 3, 1959.
The Peat Industry of the Moscow
Oblast Council of the National
Economy (Sovnarkhoz) in 1959-1965,
by L. V. Pyatakov, 6 pp, (pp 1-3.)

USSR
Economic (Contd)

Selected Articles From the Russian
Periodical Torf Prom. (Contd)

JPRS 13624

No 3, 1959.

The Seven-Year Plan for the
Development of the Peat
Industry of the Kalinin
Council of National Economy
(Sovnarkhoz), by S. S.
Apenchenko, 5 pp, (pp 4-6.)

No 4, 1959.

Problems Confronting Trade-
Union Organizations of the
Peat Industry, by M. Ya.
Aleksandrov, 8 pp, (pp 1-4.)

Peat Enterprises of the
Leningrad Trust in 1959-1965,
by A. P. Basov, 5 pp, (pp 5, 6.)

Prospects and Economic
Effectiveness of Further
Development of the Peat Industry
of the USSR, by L. V. Semenov, 7 pp,
(pp 16-19.)

No 5, 1959.

Utilization of Reserves in the
Economy of Peat Enterprises, by
V. Ye. Yezhov, 5 pp, (pp 5-7.)

Basic Performance Indices for the
Usazn, Luksk, Buchmany and
Tootsi Peat Briquet Plants for
1957-1958, by N. S. Kostyuk, 5 pp,
(pp 17, 18.)

USSR
Economic (Contd)

**Selected Articles From the Russian
Periodical Torf Prom. (Contd)**

JPRS 13624

No 5, 1959.
Status and Prospects of Utilization
of Peat for Fertilization in
Agriculture, by I. Kh. Teregulov,
5 pp, (pp 19, 20.)

No 7, 1959.
The Peat Industry on the 42nd
Anniversary of the Great October
Socialist Revolution, 7 pp, (pp 1-4.)

Peat Semi-Briquette Production in
Belorussian Socialist Soviet
Republic, by A. I. Tarnovskiy,
D. I. Shukhman, 5 pp, (pp 16-18.)

The Peat Industry and Peat Trans-
portation in Belorussia, by
P. A. Mikhnevich, 6 pp, (pp 24-28.)

No 8, 1959.
More Peat for Agriculture in the
Non-Chernozem Region, by I. E.
Belokopytov, 7 pp, (pp 1-4.)

No 3, 1960.
The Peat Industry of the
Mosoblsovmarkhoz, by L. B. Plyatakov,
6 pp, (pp 14-16.)

The Lensovnarkhoz Peat Industry, by
D. A. Sokolov, D. K. Zhemchuzhin, 4 pp,
(pp 17-19.)

USSR
Economic (Contd)

Selected Articles From the Russian
Periodical Torf Prom. (Contd)

JPRS 13624

No 4, 1960, pp 1-5.
The Results of the Work of the
Peat Industry of the RSFSR in
1959 and its Tasks for 1960, by
B. T. Strukov, 9 pp.

No 5, 1960, pp 1-28.
Interrepublic Conference of Peat
Industry Workers, 51 pp.

No 1, 1961.
Raising to the Utmost the
Utilization of Peat Resources
in Agricultural Production, by
C. A. Tsuprov, 6 pp, (pp 1-4.)

The Advantages of Peat Consumption
in Different Economic Districts
of the USSR, by R. M. Rassulov,
10 pp, (pp 16-20.)

No 3, 1961.
To Fulfill the Tasks Set Forth
Before Peat Workers in the Third
Year of the Seven-Year Plan, by
H. V. Ivashechkin, 7 pp, (pp 1-4.)

To Speed Up Complex Mechanization
in the Peat Industry, by A. N. Sipko,
4 pp, (pp 17, 18.)

No 4, 1961, pp 12-15.
New Machinery for the Production
of Peat Mineral-Ammonia
Fertilizers, by A. I. Mandel'baum,
7 pp.

USSR
Economic (Contd)

Selected Articles From the Russian
Periodical Torf Prom. (Contd)

JPRS 13624

No 6, 1961, pp 1-5.
Peat Industry of the CNE of the
Belorussian SSSR On the Eve of
the XXII Party Congress, by
A. I. Tarnovskiy, 11 pp.

No 7, 1961.
The Peat Industry of the
Leningrad Sovmarkhoz on the Eve
of the XXII Party Congress, by
A. P. Basov, 5 pp, (pp 1-3.)

The Peat Industry of the Ivanovo
Sovmarkhoz on the Eve of the XXII
Party Congress, by F. F. Karakin,
5 pp, (pp 4, 5.)

Reserves for Raising the Labor
Productivity in the Peat Industry
of the Belorussian SSR, by A. M.
Manusevich, 9 pp, (pp 21-25.)

Operation of Tractor Ploughs at High
Speed, by K. L. Likhoyedenko.
RUSSIAN, per, Traktory i Sel'khoz.
Vol XXX, No 5, 1960, pp 17-20.

NLL M. 4047

The Decisions of the 22nd Party
Congress Must Be Implemented More
Rapidly, 6 pp.
RUSSIAN, per, Traktory i Sel'khoz.
No 1, 1962, pp 1, 2.

JPRS 13617

Automating the Production of Pistons
at the Avototraktorodetal Automobile
and Tractor Parts Plant in Tambov, by
P. V. Paukov, 9 pp.
RUSSIAN, per, Traktory i Sel'khoz.
No 1, 1962, pp 42-45.

JPRS 13617

USSR
Economic (Contd)

Cement Industry in the Fourth Year
of the Seven-year Plan, 4 pp.
RUSSIAN, per, Tsement, No 1, Jan/Feb 1962,
pp 1, 2.

JPRS 13673

Broadening the Variety and Improving the
Quality of Cement, by I. I. Kholin, 7 pp.
RUSSIAN, per, Tsement, No 1, Jan/Feb 1962,
pp 3-5.

JPRS 13673

On the Limits of Material Production,
by Ya. B. Kvasha, 16 pp.
RUSSIAN, per, Uchebnyye Zapiski po
Statistiki, Vol VI, 1961, pp 141-156.

JPRS 13599

The New Volga-Baltic Inland Waterway
System, 5 pp.
RUSSIAN, np, Vechernyaya Moskva,
29 Nov 1961.

JPRS 13587

The New ZIL Truck Models, 7 pp.
RUSSIAN, np, Vechernyaya Moskva,
13 Feb 1962, p 1.

JPRS 13655

More Discussions on Model "ZIL-130"
Trucks, 10 pp.
RUSSIAN, np, Vechernyaya Moskva,
14 Feb 1962, p 2.

JPRS 13655

The Role of Amortization in the Repro-
duction of Capital Assets [or Basic
Funds]; [the Leningrad Economic Region
Used as Example], by Ye. L. Pripisnova,
28 pp.
RUSSIAN, per, Vest Leningradskogo Univ,
Issue 4, pp 67-80.

JPRS 13482

USSR
Economic (Contd)

Division of Production and Division
of Labor, by V. P. Korniyenko, 10 pp.
RUSSIAN, per, Vest Leningradskovo
Univ, Ser Ekon, Filosofii i Prava,
No 23, 1961, pp 57-66.

JPRS 13482

Methods of Solving the Problem of
Optimum Production Control in a
Chemical Enterprise, by L. M.
Dudkin, 12 pp.
RUSSIAN, per, Vest Moskovskogo
Univ, Ser VIII, Econ, Filos,
No 1, Jan/Feb 1962, pp 18-27.

JPRS 13690

Tasks of Soviet Statistics in
the Light of Decisions of the
Twenty-Second Congress of the CPSU
by V. Starovskiy, 35 pp.
RUSSIAN, per, Vest Statistiki,
1962, No 1, pp 3-15.

JPRS 13482

Paths Toward Improving Price
Statistics, by S. Stolyarov,
19 pp.
RUSSIAN, per, Vest Statistiki, 1962,
No 1, pp 16-23.

JPRS 13482

Introduce the Achievements of
Science and Technology in
Curriculum of Specialists' Train-
ing, by M. M. Fedorovich, 12 pp.
RUSSIAN, per, Vest Vysshey Shkoly,
No 12, 1961, pp 21-25.

JPRS 13482

USSR
Economic (Contd)

Selected Articles From the Russian
Newspaper Vodnyy Transport.

JPRS 13587

30 Nov 1961.

Proceeding of the Collegium,
Ministry of the River Fleet, 15 pp.

2 Dec 1961.

Further Proceedings of the
Collegium, Ministry of the River
Fleet, 9 pp.

14 Dec 1961.

Bypassing Gibraltar, by B. Romanov,
4 pp.

The Great Dnepr Project, by
C. Perekhrest, 4 pp.

The New Baltic-Black Sea
Waterways, by G. Matlin, 9 pp.

28 Dec 1961.

Improvement Needed in Port Work,
5 pp.

Conference on Automation and Remote
Control of Water Supply and Sewer
Systems and Constructions, 10 pp.
RUSSIAN, per, Vodosnabzheniye i San
Tekh, No 10, 1961, pp 37-40.

JPRS 13670

Selected Articles From the Russian
Periodical Voprosy Ekon.

No 12, 1961.

Problems of Introducing Mathematics
and Electronic Computers Into Planning,
by N. Kovalev, 16 pp, (pp 118-127.)

JPRS 13482

USSR
Economic (Contd)

Selected Articles From the Russian
Periodical Voprosy Ekon. (Contd)

- No 12, 1961.
At the Scientific Research Institute
of Labor, by I. Dmitrashko, 5 pp,
(pp 149-151.) JPRS 13695
- No 1, 1962.
The Matrix Model for a Production
Plan of a Machinery Construction
Enterprise, by A. Modin, 8 pp,
(pp 103-114.) JPRS 13614
- Conference on the Questions of
Using Mathematical Methods in
Economics, 10 pp, (pp 115-121.)
- No 2, 1962, pp 140-142. (NY-7090). *JPRS
Book on the Collective Form of
Labor Payment in Industry, by
M. A. Vlasov, (NY-7090).
- The Building of Communism and the
Development of Our Cities, by Yu.
P. Bocharov, V. I. Rabinovich, 25 pp.
RUSSIAN, per, Voprosy Filosofii, No 2,
1962, pp 25-36. JPRS 13486
- The KRAZ.250 Automobile, 6 pp.
RUSSIAN, per, Za Rulyem, 1962,
pp 15-17. ACSI I-1229
ID 2196095
- News of the Rustavi Metallurgical Plant,
by A. Borovkov, I. Zhordaniya, et al,
7 pp.
RUSSIAN, np, Zarya Vostoka, 10 Jan 1962. JPRS 13633
- Scrap Metal From All Corners of the
Republic, 5 pp.
RUSSIAN, np, Zarya Vostoka, 12 Jan 1962. JPRS 13748

USSR
Economic (Contd)

A Means of Transporting Large
Sized Construction Members, by
N. N. Shchekin.
RUSSIAN, Patent 139,942,
Application No 688664/29.

*FTD-TT-62-756

Modern Efficient Motorized Locomotive
in the USSR, by Vladimir Svejnoch, 3 pp.
CZECH, per, Zeleznicni Doprava a
Technika, No 8, 1961, pp 251, 252.

ACSI I-1231
ID 2196097

Rail Transportation in the Building of
Communist Society in the USSR, by
Jaroslav Travnicek.
CZECH, per, Zeleznicni Doprava a
Technika, No 10, 1961, pp 239.

*ACSI I-1165
ID 2196083

Rail Transportation and the XII
Meeting of the Communist Party of
the Soviet Union (KSSS), by Z. L.
CZECH, per, Zeleznicni Doprava a
Technika, No 11, 1961, pp 321-322.

*ACSI I-1164
ID 2196082

Railroads East of the Urals, 320 pp.
JAPANESE.

319th MI Bn
H-8111
ID 2158097

Economic Study of Poltava Oblast
Ukrainian SSR, by Maksim Fedorovich
Kolomiyets, 21 pp.
UKRAINIAN, bk, Poltavs'ka Oblast,
1959, pp 31-37, 74-86.

JPRS 13638

Long-Range Development of Ferrous
Metallurgy in the Ukrainian SSR, by
I. Bornats'kiy, M. Tereshchenko
(NY-7086)
UKRAINIAN, per, Ekonomika Radyan'skoy
Ukrainy, No 1, 1962, pp 26-32.

*JPRS

USSR
Political

Soviet View of the International
Congress of Africanists, by I. Pot^khin,
8 pp.
RUSSIAN, per, Aziya i Afrika Segodnya,
No 3, 1962, pp 4, 5.

JPRS 13661

Selected Articles From the Russian
Periodical Kommunist.

No 3, 1962.
From the State of the Dictatorship
of the Proletariat to the General
Popular State, by A. Bovin, 18 pp.
(pp 20-30).

JPRS 13660

Ideological Commissions of Party
Committees, by D. Zemlyanskiy,
S. Mezentsev, 14 pp, (pp 78-84).

No 4, 15 Mar 1962.
Soviets, Democracy, Self-Government,
by M. Piskotin, B. Lazarev, et al,
19 pp, (pp 13-24).

JPRS 13503

The Correct Way to Guarantee
Lasting Peace Among Nations, by
A. Arzumanyan, 17 pp, (pp 25-35).

On the Historical Views of M. N.
Pokrovskiy, by O. Sokolov,
17 pp, (pp 69-79).

USSR
Political (Contd)

Selected Articles From the Russian
Periodical Kommunist. (Contd)

- No 5, Mar 1962. JPRS 13660
Two Worlds -- Two Lines of Political Development, 12 pp, (pp 13-19).
- The Basic Features of the Material-Technological Basis of Communism, by I. Kasitskiy, 15 pp, (pp 96-103).
- The 22nd Congress and Problems of Ideological Work, by F. Fedorov, 9 pp, (pp 117-120).
- No 6, Apr 1962, pp 50-59. JPRS 13774
To Build Communism Is the Greatest Good Fortune of Soviet Youth, by L. Karpinskiy, 17 pp.
- The General Line of Soviet Foreign Policy, by M. Gus, 53 pp.
RUSSIAN, per, Zvezda, No 11, 1953, pp 106-125. JPRS 13568
- Moscow-Peking: Wherein Lies the Controversy?, by Andre Masson, 4 pp.
FRENCH, per, Le Communiste, No 79, Feb 1962, pp 8-9. JPRS 13632
- Difficult Rapprochement Between Moscow and Peiping, by Francois Fejto, 7 pp.
FRENCH, np, Lumiere, Vol XXVIII, No 1362, 20 Apr 1962, p 5. JPRS 13754
- The Problem of the Communist Intellectuals, 12 pp.
FRENCH, per, Unir Pour le Socialisme, Mar-Apr 1962, p 6. JPRS 13775

USSR
Political (Contd)

Soviet Delegate Sees Melipse of
Imperialism, by Leonid Solovyev,
7 pp.
SPANISH, np, El Siglo, No 3348,
19 Mar 1962, p 6.

JPRS 13649

Military

Ship-Borne Air Defense Facilities,
by K. V. Morozov, 86 pp.
RUSSIAN, bk, Korabel'nyye Sredstva Pvo,
1960, pp 1-122.

JPRS 13612

Marksmanship Manual Infantry Antitank
Launcher RPG-2, by I. K. Vil'chinskiy,
G. M. Shinkarev, 53 pp.
RUSSIAN, bk, Nastavleniye po Strelkovomu
Delu - Ruchnoy Protivo Tankovyy Granat-
omet (R PG-2), 2d Ed, revised, 1961,
96 pp.

319th MI Gp
I-0897
ID 2186709

Contemporary Means of Emergency Escape
From An Airplane, by S. M. Alekseyev,
Ya. B. Galkina, 88 pp, chapters 2 and 3.
RUSSIAN, bk, Sovremennyye Sredstva
Avariynogo Pokidaniya Samoleta, 1961,
pp 24-68, 290-306. 9676762 attach to
(IR 1455856)

FTD-TT-62-154

TU-124, by S. Yeger.
RUSSIAN, per, Grazhdanskaya Aviatsiya,
No 4, 1962, pp 10-13.

*FTD-TT-62-764

Work With Officer Cadres in Conformity
With Requirements of the 22nd Party
Congress, by A. Beloborodov, 9 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil,
No 2, 1962, pp 19-26.

JPRS 13595

USSR
Military (Contd)

Selected Articles From the Russian
Newspaper Krasnaya Zvezda.

No 32 (11637), 7 Feb 1961, p 2,
columns 1-4. 9676293
The Rocket-Gunners From the Cruiser
"Dzerzhinskiy," by M. Novikov,
A. Krysov, 7 pp.

FTD-TT-62-247

31 Aug 1961. 9676768
Declaration of the Soviet Govern-
ment, 15 pp.

FTD-TT-62-452

19 Jan 1962, p 2.
Every Signalman a Master of His
Work, by A. Leonov, 5 pp.

JPRS 13595

31 Jan 1962, p 2.
A Feeling for Seconds, by
B. Kutsenko, 4 pp.

JPRS 13532

4 Feb 1962, p 2.
Traces in the Ether, by
A. Shichalin, 4 pp.

JPRS 13532

18 Feb 1962.
Field Training Is Primary, by
A. I. Proshlyakov, 4 pp, (p 2).

JPRS 13595

Ballistic Missile on the Launching
Pad, by N. Vasil'yev, 3 pp, (pp 2, 3).

JPRS 13715

25 Feb 1962.
Missile Fireworks, by N. Gorbachev,
6 pp, (pp 2, 3).

JPRS 13715

Missile Storage, by V. Lukin, 4 pp,
(p 4).

28 Feb 1962, p 2.
What We Agree With, by I. Semenov,
K. Bushmanov, 4 pp.

JPRS 13595

USSR
Military (Contd)

Selected Articles From the Russian
Newspaper Krasnaya Zvezda. (Contd)

- No 53, 3 Mar 1962, p 3. JPRS 13515
The Start, by A. Krysov, 5 pp.
- 10 Mar 1962, p 2. JPRS 13715
A Missile Engineer Goes to a
Chast', by P. Valuyev, 3 pp.
- 24 Mar 1962, p 2. JPRS 13715
Combat Readiness of Missile Troops
and Artillery, by S. Varentsov, 4 pp.
- 29 Mar 1962, p 2. JPRS 13743
Unwarranted Guardianship, by
A. Podol'skiy, 4 pp.
- 8 Apr 1962, p 1. JPRS 13743
An Intercontinental Attacks, by
S. Kovalev, 4 pp.
- Long Seconds, by N. Denisov, 10 pp.
RUSSIAN, per, Kryl'ya Rodiny, Oct 1961,
pp 6-8. 9676772 FTD-TT-62-402
- Tables of All-Union Aviation Records.
RUSSIAN, per, Krylya Rodiny, No 3,
1962, 8 pp. *FTD-TT-62-774
- The Aircraft Fights Time, by S. A.
Krasovskiy, 6 pp.
RUSSIAN, np, Nedelya, (Supplement),
No 8, 18-24 Feb 1962, pp 10, 11. JPRS 13743
- Rockets Defending the Peace, by
J. Pokorny, 3 pp.
RUSSIAN, np, Zivot, 19 Feb 1962, pp 6, 7. JPRS 13532
- Soviet Rockets Landed at the Exact
Spot, by A. Endert, 4 pp.
CZECH, per, Smena, Slovak Youth Daily
(Appearing in Bratislava/Pressburg,
CSSR), 4 Nov 1961. 9676325 FTD-TT-62-91

USSR
Geographic

Bulletin of the Moscow Society for
Natural Research, Geological Section,
444 pp.

RUSSIAN, bk, Byulleten' Moskovskogo
Obshchestva Ispytatelei Prirody, Otdel
Geologicheskii, Vol XXXI, Editions 1,
2, 3, 1956.

OTS 61-11402/1-3
PL-480

A Geographic Study of Rural Settlement:
Materials for Studying Rural Settlement
in the USSR, by S. A. Kovalev, 35 pp.
RUSSIAN, bk, Geograficheskoye Izuchenije
Sel'skogo Rasseleniya, 1960, pp 3-5,
243-281.

JPRS 13672

The Komi ASSR, by N. I. Shishkin,
(DC-6778).
RUSSIAN, bk, Komi-ASSR, 1959, pp map 26,
152-200.

*JPRS

The Area Around Moscow, by A. A. Mints,
(SF-2244).
RUSSIAN, bk, Podmoskov'ye, 1961,
pp 165-175, 186-206, 213-233, 239-261,
265-274, 279-282, 285-286.

*JPRS

Tourist Routes for Novgorodskaya Oblast,
by A. I. Semenov, (SF-2235).
RUSSIAN, bk, Turistskiye Marshruty po
Novgorodskoy Oblast, 1961, pp 1-80.

*JPRS

The Volga-Vyatka Region, by G. P.
Matveyev, G. A. Privalovskaya, et al,
(SF-2237).
RUSSIAN, bk, Volgo-Vyatskiy Rayon, 1961,
pp 169-267, 290-320, 354-383, 403-427,
450-473, 496-517, 518-522.

*JPRS

USSR
Geographic (Contd)

New Scientific Center in Siberia,
4 pp.

RUSSIAN, per, Vest Ak Nauk SSR,
Vol XXXI, No 12, 1961, pp 106-108.

JPRS 13670

A Tourist Guide to the Aluksne
Region, Latvian SSR, by G. Lapins,
O. Lepse, (DC-6781).

LATVIAN, bk, Turistu Celvedis pa
Aluksnes Rajonu, 1959, pp 1-73.

*JPRS

A Guidebook to Chernovtsy, (SF-2234).
UKRAINIAN, bk, Chernivtsi-Dovidnyk-
Putivnyk, 1959, pp 9-83, 97-114.

*JPRS

USSR
Sociological

A Tourist Trip Around Estonia, by
Ye. Brik, 7 pp.
RUSSIAN, bk, Turistskiye Pokhody po
Estonii, 1960, pp 23-39.

JPRS 13598

On the Attack Against Religious Vestiges,
by O. Shvydak, (SF-1876).
RUSSIAN, per, Agitator, No 4, 1962,
pp 53-55.

*JPRS

The Cinema and Scientific-Atheistic
Propaganda, by I. Bakurinskiy,
(SF-1876).
RUSSIAN, per, Agitator, No 8, Apr 1962,
p 63.

*JPRS

Public Health Research on Electro-
magnetic Radiowave Fields in the
RSFSR, by Yu. A. Osipov, 11 pp.
RUSSIAN, per, Byul Uchenogo Medit-
sinskogo Soveta, Vol III, No 1, 1962,
pp 7-10.

JPRS 13755

Selected Articles From the Russian
Periodical Kommunist.

No 2, 1962, pp 91-93. (SF-1876).
The Fervent Unmasking of the
Jesuits, by Ya. Minkyavichyus.

*JPRS

No 4, 15 Mar 1962.
The Most Important Condition for
Training the New Man, by A. Snejkus,
19 pp, (pp 46-57).

JPRS 13503

Notes on a Number of Literary Con-
troversies, by V. Ivanov, 18 pp,
(pp 58-68).

USSR
Sociological (Contd)

Selected Articles From the Russian
Periodical Kommunist. (Contd)

No 5, Mar 1962, pp 85-95.
Something New in Life and in
Literature, by A. Metchenko, 20 pp.

JPRS 13660

No 6, Apr 1962.
To a New Upsurge of Agriculture, by
T. Koval', (DC-1875), (pp 30-37).

*JPRS

The Transformation of the System of
Socialism Into a Crucial Factor in
the Development of Mankind, by
L. Tolkunov, 20 pp, (pp 38-49).

JPRS 13774

Labor and Beauty, by L. Kogan,
15 pp, (pp 69-77).

JPRS 13774

Everything Is in Your Hands, Man!,
by A. Osipov, (SF-1876).
RUSSIAN, np, Literaturnaya Gazeta,
30 Jan 1962.

*JPRS

Selected Articles From the Russian
Periodical Nauka i Religiya.

No 2, 1962, (SF-1876).
The 22d Congress of the CPSU and
the Scientific-Atheistic Propaganda
Tasks, (pp 3-14).

*JPRS

Each Member of the Intelligentsia
Is a Propagandist for Atheism,
(pp 15-18).

The Seal of the Impoverishment of
Faith, by Ye. Pirogov, (pp 51-54).

Marx and Engels on Islam, by
M. Batunskiy, (pp 77-80).

USSR
Sociological (Contd)

Selected Articles From the Russian
Periodical Nauka i Religiya. (Contd)

- No 3, 1962, (SF-1876). *JPRS
The 22d Congress of the CPSU and
the Tasks of Scientific-Atheistic
Propaganda, (pp 9-20).
- At the Cradle of the Grandchild,
by S. Gorskiy, (pp 45-47).
- Victories and Defeats of Tartu
University, by G. Gerodnik,
(pp 50-55).
- On the True Path, by M. Petrenko,
A. Onishchenko, (pp 94, 95).
- No 4, 1962, (SF-1876). *JPRS
Translations on Religion in the
USSR, by Vl. Sashonko, (pp 43-45).
- No 5, 1962, (SF-1876). *JPRS
All-Union Conference of Atheists,
by P. N. Fedoseyev, (pp 7-11).
- Reports, by I. P. Tsameryan,
F. Ch. Oleshchuk, et al, (pp 12-14).
- Here They Are -- The Missionaries,
by B. Godovanny, (pp 41-45).
- Lombardy in Disgrace, by I.
Lavretskiy, (pp 46, 47).
- With Fire and Sword, by S. Borisov,
(p 46).
- The Communist Labor Movement and Per-
fection of Social Relations, by
A. S. Petrov, 29 pp.
- RUSSIAN, per, Sovet Ethnografiya, No 1,
1962, pp 76-82. JPRS 13805

USSR
Sociological (Contd)

Specific Social Research, by B. G.
Dolgodilin, V. V. Kazarinov, et al,
14 pp.

RUSSIAN, per, Voprosy Filosofii,
No 2, 1962, pp 164-167.

JPRS 13488

Modelling in Sociological Research,
by P. P. Maslov, 29 pp.

RUSSIAN, per, Voprosy Filosofii,
Vol XVI, No 3, 1962, pp 62-78.

JPRS 13662

Riga Retour, by Pavils Klans,
(DC-6782).

LATVIAN, bk, Riga Retour, 1961,
pp 44, 64-108.

*JPRS

Biographic

The Daughter of the Baykal - Angara,
by B. A. Tomytkin.

RUSSIAN, rpt, Doch' Baykala-Angara,
Encl No 1 to RV-237-62, 1961, pp 3-114.

*ACSI I-1411
ID 2193849

Soviet Scientists and Organizations,
36 pp.

RUSSIAN, periodicals.

JPRS 13815

EASTERN EUROPE

Economic

On Reconstruction of State Triangulation,
by Muharrem Dragovaja.

ALBANIAN, per, Buletin i Universitetit
Sheteror te Tiranes Seria Shkencat
Natyrore, No 4, 1961.

*ACSI I-1428
ID 2198534

Basic Trends in the Development of the
Textile Industry in Bulgaria, by
Petko Spirkov, Vasil Vytov, 87 pp.
BULGARIAN, bk, Osnovni Nasoki v
Razvitieto na Tekstilnata Promishlenost
v Narodna Republika Bulgariya, 1961,
pp 176-193, 198-213, 215-251, 259-275.

JPRS 13709

Problems of Bulgarian Machinery and
Equipment Export, by Ivan Tutev, 18 pp.
BULGARIAN, per, Ekonomicheska Misyl,
No 8, 1961, pp 65-80.

JPRS 13809

Liquidating Economic Backwardness in the
Socialist Countries, by Yu. Belyayev,
16 pp.

BULGARIAN, per, Ekonomicheska Misyl,
No 9, 1961, pp 60-72.

JPRS 13742

The Growth of Labor Productivity and
Wages, by Nikifor Ivanov, 12 pp.
BULGARIAN, per, Ekonomicheska Misul,
Vol VI, No 19, 1961, pp 78-84.

JPRS 13579

The Problems of the Chemical Industry
in 1962, by Al. Kuzmanov, 4 pp.
BULGARIAN, per, Khimiya Industriya,
No 6, 1961, pp 165-167.

JPRS 13809

Development and Some Questions on
Imports of Fuels, Metals, Commodities,
and Raw Materials, by Ivan Tutev, 8 pp.
BULGARIAN, per, Vsemashna Turgoviya,
Vol XII, 1961, pp 11-15.

JPRS 13668

Eastern Europe
Economic (Contd)

Unified Agricultural Policy of the
Common Market Countries, by
Emil Bakhchevanov, 12 pp.
BULGARIAN, per, Vunshna Turgoviya,
No 1, 1962, pp 13-18.

JPRS 13750

Brazil's Foreign Trade and Prospects
for Trade With Bulgaria, by
Todor Kozarov, 8 pp.
BULGARIAN, per, Vunshna Turgoviya,
No 1, 1962, pp 18-21.

JPRS 13750

The Structure and Work of Personnel
Commissions and Services in Communal
Councils, by Jelena Uscumliic, 11 pp.
CROATIAN, per, Bilten za Pitanja Javne
Uprave i Privrede, No 9/10, 1961,
pp 329-338.

JPRS 13564

The Funds of Independent Institutions,
by B. A., 15 pp.
CROATIAN, per, Bilten za Pitanja
Javne Uprave i Privrede, No 9/10,
1961, pp 342-352.

JPRS 13564

Methodological Problems in the
Revaluation of Fixed Assets, by
Ivo Vinski, 30 pp.
CROATIAN, per, Ekonomski Pregled,
Vol XII, No 9, 1961, pp 799-810.

JPRS 13618

Variations in Earnings and Living
Costs in Croatia, by J. Stahan,
J. Bozicevic, 44 pp.
CROATIAN, per, Ekonomski Pregled,
Vol XII, No 9, 1961, pp 812-829.

JPRS 13618

Eastern Europe
Economic (Contd)

**Selected Articles From the Croatian
Periodical Finansije.**

- No 7/8, 1961, pp 510-519. JPRS 13750
Financing Equipment Imported Through
the Use of Foreign Credits, by
Teodor Starcevic, 13 pp.
- Vol XVI, No 10, 1961. JPRS 13578
Problems of the Social Bookkeeping,
by Tosa Tisma, 23 pp, (pp 599-613).
- Questions in Connection With the
Realization of the General Invest-
ment Plan in 1961, by Teodor Starcevic,
16 pp, (pp 631-640).
- Some Questions on the Financing of
Technical Education of Cadres in the
Economic Sector, by Vojislav Mikolic,
23 pp, (pp 647-660).
- Local Committees 1959-1961, by V. S.,
25 pp.
CROATIAN, per, Jugoslovenski Pregled,
Vol V, No 10, pp 393-396. JPRS 13578
- The Twelfth Assembly of the Permanent
Conference of Cities, by B. N., 14 pp.
CROATIAN, per, Jugoslovenski Pregled,
Vol V, No 10, 1961, pp 397, 398. JPRS 13578
- The National Product and National
Income 1956-1960, by V. M., 29 pp.
CROATIAN, per, Jugoslovenski Pregled,
Vol V, No 10, 1961, pp 403-407. JPRS 13578
- Prohibited Contracts for Cooperation,
by Mihailo Velimirovic, 12 pp.
CROATIAN, per, Narodna Uprava, Vol XII,
No 7/8, 1961, pp 304-307. JPRS 13565

**Eastern Europe
Economic (Contd)**

Dismissal Procedure of Organization
Directors, by Zivko Bulatovic, 6 pp.
CROATIAN, per, Narodna Uprava, Vol XII,
No 7/8, 1961, pp 324-326.

JPRS 13565

Mutual Relations and Functions of
Organs, Establishments and Services
of Housing Collectives, by Sreten
Jovanovic, 25 pp.
CROATIAN, per, Narodna Uprava, No 10/11,
1961, pp 448-454.

JPRS 13553

Basic Concepts of New Forest-Management
Regime, by Milan Jovic, 13 pp.
CROATIAN, per, Narodni Odbor, No 7/8,
1961, pp 400-404.

JPRS 13577

Legal Characteristics of the Yugoslav
Credit System, by Milan Jovic, 30 pp.
CROATIAN, per, Narodni Odbor, No 11,
1961, pp 600-611.

JPRS 13565

New Regulations Regarding Public Roads
and Road Agencies, by Zarko Markovic,
27 pp.
CROATIAN, per, Nova Administracija,
Vol IX, No 10, 1961, pp 777-784.

JPRS 13552

Costs of Living, by B. Nikolajevic,
13 pp.
CROATIAN, per, Nova Trgovina, Vol XIV,
No 11/12, 1961, pp 556-558.

JPRS 13564

Regional Integrations and the Problems
of Their Implementation, by Drago Drndija,
19 pp.
CROATIAN, per, Pregled, Casopis za
Drustvena Pitanja, Vol XIII, No 1,
1961, pp 37-52.

JPRS 13742

Eastern Europe
Economic (Contd)

Selected Articles From the Croatian
Periodical Privredni Pregled.

- 20 Sep 1961. JPRS 13750
Bulgaria's Foreign Trade With 75 Countries, 4 pp.
- Vol XI, No 1759, 26 Oct 1961, pp 7, 8. JPRS 13554
The Procurement of Agricultural Produce, by Bosko Rakic, 13 pp.
- Vol XI, No 1766, 3 Nov 1961, p 2. JPRS 13554
The Situation in the Food Industry, by Ziza Jankovic, 4 pp.
- Vol XI, No 1795, 12 Dec 1961, p 2. JPRS 13554
The Canning Industry in 1960, by Jovan Ciric, 9 pp.
- Vol XII, No 1816, 9 Jan 1962, p 4. JPRS 13588
Changing Production Patterns in the Furniture Industry, by Jovan Cric, 6 pp.
- No 1833, 29 Jan 1962, p 6. JPRS 13750
System of Imports (I) Acquiring Foreign Currency for Import of Reproduction Materials, by B. D., 6 pp.
- No 1835, 31 Jan 1962, p 6. JPRS 13750
System of Imports (IV) Acquiring Foreign Currency for Import of Reproduction Materials, Imports Made on the Basis of General Permits, by B. D., 4 pp.
- 2 Feb 1962, p 6. JPRS 13579
Changes in Calculating the Contribution From Extraordinary Income of Economic Organizations, 8 pp.

Eastern Europe
Economic (Contd)

Application of Macro-Indicators on the
1959 Industrial Results, by Andrija Levi,
22 pp.

CROATIAN, per, Produktivnost, Vol III,
No 1, 1961, pp 5-9.

JPRS 13578

Indicators of Productivity, Economy, and
Profitability, 17 pp.

CROATIAN, per, Produktivnost, Vol III,
No 5, 1961, pp 327-330.

JPRS 13564

Changes in Economic Composition of
Yugoslav Population in the Last Forty
Years, by Dusan Breznik, 8 pp.
CROATIAN, per, Socijalna Politika,
Vol XII, No 1, 1962, pp 20-30.

JPRS 13601

Development in Transport and Communica-
tions Under the New Economic System, by
Slavko Suva jidzic, 26 pp.

CROATIAN, per, Tehnika, No 1, 1962,
pp 2-8.

JPRS 13588

Agricultural Production and Agricultural
Conditions 1961, by Dzemal Drace, 15 pp.
CROATIAN, per, Tehnika, No 1, 1962,
pp 9-13.

JPRS 13577

Communal Banks and Investment, by
N. K., 4 pp.
CROATIAN, per, Vesnik, Vol V, No 6,
Dec 1961, pp 3, 4.

JPRS 13618

Program of the Institute for the
Economics of Investment, by S. B.,
5 pp.

CROATIAN, per, Vesnik, Vol V, No 50,
Dec 1961, pp 6-8.

JPRS 13618

The Rate of Commission and Reimburse-
ment of Expenses for Provision of
Credit and Other Banking Services, by
I. Apostolovic, 4 pp.

CROATIAN, per, Vesnik, Vol V, No 60,
Dec 1961, pp 5, 6.

JPRS 13618

Eastern Europe
Economic (Contd)

Selected Articles From the Croatian
Periodical Vesnik Jugoslovenske
Investicione Banke.

Vol V, No 54/55, Jun/Jul 1961,
pp 4-9.
The Housing Construction Reserves
in 1960, by Mihailo Stamatovic,
26 pp.

JPRS 13533

Vol V, No 56, Aug 1961, pp 2-4.
The Pattern of Centralized and
Decentralized Investments, by
S. Blagojevic, 13 pp.

JPRS 13565

Vol V, No 57, Sep 1961, pp 6, 7.
Interest on Reserves and Credits,
by R. S., 9 pp.

JPRS 13565

No 59, Nov 1961, pp 9-11.
Advances To Building Construction
Firms and Manufacturers of Construc-
tion Equipment, by I. B., 4 pp.

JPRS 13533

The Development of the Economy and
Foreign Trade of the Member States of
CEMA in 1960, (NY-7094).
CZECH, bk, 1960, pp 1-135.

*JPRS

Some Hints for the Selection of Power
Chain Saws and Their Maintenance, by
J. Peterhal.
CZECH, per, Drvna Industrija, Vol XI,
No 1/2, 1960, pp 24, 25.

NLI. M. 4607

Zetor Major 3011, by J. Poliacek.
CZECH, per, Svet Motoru, 1960, pp 790-791.

*ACSI H-8610
ID 2162122

Eastern Europe
Economic (Contd)

Uniform Terminology for the Power
Industry, 17 pp.
GERMAN, bk, Einheitliche Begriffe
der Energiewirtschaft.

JPRS 13596

The Economics of Domestic Trade in
the German Democratic Republic (GDR),
by Wolfgang Heinrich, 370 pp.
GERMAN, bk, Oekonomik des Binnenhandels
in der DDR, 1960, 752 pp.

JPRS 13634

The 22d Party Congress: A Textbook
for Our Republic, 9 pp.
GERMAN, per, Arbeit und Sozialfuersorge,
Vol XVII, No 1, 1962, pp 4-6.

JPRS 13579

Selected Articles From the German
Periodical Der Aussenhandel.

No 1, 10 Jan 1962.
Economic Community Requires the
Settlement of Transportation
Problems, by E. Wiezorek, 4 pp,
(pp 20, 21).

JPRS 13679

Transit Traffic Through Polish
Harbors, by M. Schelzel, 6 pp,
(pp 21, 22).

No 3, 7 Feb 1962.
Some Problems of Long-Term Planning
in GDR Foreign Trade, by G. Grote,
8 pp, (pp 10-14).

JPRS 13662

Joint Operation of Shipping Lines
Intensifies Cooperation, by
K. Friedrich, 5 pp, (pp 20, 21).

JPRS 13679

Eastern Europe
Economic (Contd)

Production of Brown Coal High Temperature Coke From Fine-Grain Briquettes, by G. Bilkenroth, E. Rammier, 12 pp.
GERMAN, per, Bergbautechnik, Vol XI, No 4, 1961, pp 171-175.

JPRS 13787

Problems Connected With Systematic Preventive Maintenance in the Chemical Industry, by Gottfried Grabner, 5 pp.
GERMAN, per, Chemische Technik, Vol XIII, No 4, 1961, pp 225, 226.

JPRS 13606

Determination of the Profits From Investments in the Member Countries of the Council for Economic Mutual Aid, 5 pp.
GERMAN, per, Deutsche Finanzwirtschaft, Feb 1962, pp F11-F12.

JPRS 13682

Measurement of Performance of Workers in Manually Operated Long-Distance Service, by Edith Engelmann, 6 pp.
GERMAN, per, Die Deutsche Post, Vol VII, No 2, 1962, pp 47-48.

JPRS 13797

Introduction to the Electro-Erosive Machining of Metal, by H. Muegge, 4 pp.
GERMAN, per, Der Electro-Praktiker, Jan 1962, pp 1-3.

JPRS 13606

1962 -- All Forces for the Utilization of Transport Capacities, by W. Lindner, 11 pp.
GERMAN, np, Fahrt Frei, Vol XIV, No 1, 2 Jan 1962, pp 3, 4.

JPRS 13679

The Functions of Foreign Trade in the Socialist Economy, by Gertrude Grabig, Margaret Held, 75 pp.
GERMAN, per, Frage des Aussenhandels, No 6, 1961, pp 5-76.

JPRS 13537

Eastern Europe
Economic (Contd)

Hungary's Industrialization Under A
New Omen, 4 pp.
GERMAN, per, Frankfurter Allgemeine
Zeitung, 2 Jan 1962, p 14.

JPRS 13579

Future of the All-German Norms, by
Dieter Vogel, 4 pp.
GERMAN, per, Frankfurter Allgemeine
Zeitung, 6 Feb 1962, p 13.

JPRS 13579

The Water Economy of Halophytes, by
M. J. Adriani.
GERMAN, per, Handbuch der Pflanzen-
physiologie, Vol III, 1956, pp 902-913.

CSIRO 5193

Problems of Concentration in Our
Food Industry, by K. Bachmann, 12 pp.
GERMAN, per, Die Lebensmittel-Industrie,
Vol VIII, No 11, 1961, pp 331-334.

JPRS 13554

Problems of Concentration in Our Food
Industry, (II), by K. Bachmann, 6 pp.
GERMAN, per, Die Lebensmittel-Industrie,
Vol VIII, No 12, 1961, pp 374-376.

JPRS 13554

Problems of Concentration in Our Food
Industry, (III), by K. Bachmann, 3 pp.
GERMAN, per, Die Lebensmittel-Industrie,
Vol IX, No 1, 1962, pp 13-15.

JPRS 13554

Future Substitute Arrangements for
Radio Links in the German Democratic
Republic, by H. Hunich.
GERMAN, per, Nachrichtentechnik, Vol XI,
No 12, 1961, pp 539-541.

*ACSI I-1251
ID 2196109

Economic Integration in the Communist
Bloc, by Karl G. Thalheim, 33 pp.
GERMAN, per, Oesterreichische Osthefte,
1961, pp 28-59.

JPRS 13662

**Eastern Europe
Economic (Contd)**

Railroad Freight Rates in OSShD Research,
by G. Tseeman, 5 pp.
GERMAN, per, Operative Dienst, Vol VI,
No 2, 1962, pp 40, 41.

JPRS 13588

Railroad Substitute Transportation
in the GDR, by Klaus Kaltschmidt,
7 pp.
GERMAN, per, Operative Dienst, Vol VI,
No 2, 1962, pp 61-64.

JPRS 13588

East German Official Statistics, by
Ali Wiesner, 14 pp.
GERMAN, per, Sbz Archiv, Vol XII,
No 23, Dec 1961, pp 367-370.

JPRS 13579

Juggled Wage Statistics, by
Herbert Braune, 17 pp.
GERMAN, per, Sbz Archiv, Vol XII,
No 23, Dec 1961, pp 370-374.

JPRS 13579

The Most Important Tasks of the OSShD
for 1962, 5 pp.
GERMAN, per, Signal und Schiene, Vol VI,
No 1, 1962, pp 12, 13.

JPRS 13588

Working Session of the Seventh Commission
of the OSShD, by Erich Hennig, 7 pp.
GERMAN, per, Signal und Schiene, Vol VI,
No 1, 1962, pp 27, 28.

JPRS 13588

The Plans for Urban Settlements, by
Iiri Hruza, 10 pp.
GERMAN, per, Stadtetan in der
Tschechoslowakei, Prague, 1958, pp 69-72,
Call No NA 9241, C 9577.

Army Map Service

Development of Farm Produce Prices
1955-1960, by Hans Raehse, 10 pp.
GERMAN, per, Statistische Praxis,
Vol XVI, No 12, 1961, pp 314-318.

JPRS 13577

Eastern Europe
Economic (Contd)

- Scientists Help Production, by
H. Jancke, 4 pp.
GERMAN, per, Die Technik, Vol XVI,
No 4, 1961, pp 295, 296. JPRS 13606
- New Porcelain Plant in Kahla
(Thuringia), 4 pp.
GERMAN, per, Die Technik, Vol XVI,
No 4, 1961, pp 326, 327. JPRS 13606
- Temporary Anti-Climatic Protection
for Technical Equipment by Use of
Suitable Packing, by H. Bottger,
14 pp.
GERMAN, per, Technische Gemeinschaft,
1959, pp 48-52. 525th MI Gp
H-4507
ID 2196092
- Budapest's Big Surface-Water Works,
by Dominik Hyngady, 5 pp.
GERMAN, per, Wasser-Abwasser, Vol CIII,
No 6, 1962, pp 138-142, (CALL NO TP 700
G25). Army Mcp Service
- Is Correct Planning Really So Difficult,
by Rolfr Pieplow, 9 pp.
GERMAN, per, Die Wirtschaft, No 3,
17 Jan 1962, p 10. JPRS 13579
- Budapest, by Klaus Nernheim, 11 pp.
GERMAN, per, Wirtschaftsgeographic,
Vol V, No 8, 1961, pp 233-240. JPRS 13613
- Cross Investment of East German Industry
1950 to 1960, 7 pp.
GERMAN, per, Wochenbericht Deutsches
Institut fuer Wirtschaftsforschung, No 3,
19 Jan 1962, pp 9-11. JPRS 13579
- Some Questions of Farm Economics in
East Germany, by O. Ruhle, 26 pp.
GERMAN, per, Z. fuer Agrarokonomik,
Vol IV, No 6, 1961, pp 241-260. JPRS 13779

**Eastern Europe
Economic (Contd)**

Scientists Help Production, by
H. Jancke, 4 pp.
GERMAN, per, Die Technik, Vol XVI,
No 4, 1961, pp 295, 296.

JPRS 13606

New Porcelain Plant in Kahla
(Thuringia), 4 pp.
GERMAN, per, Die Technik, Vol XVI,
No 4, 1961, pp 326, 327.

JPRS 13606

Temporary Anti-Climatic Protection
for Technical Equipment by Use of
Suitable Packing, by H. Bottger,
14 pp.
GERMAN, per, Technische Gemeinschaft,
1959, pp 48-52.

525th MI Gp
II-4507
ID 2196092

Budapest's Big Surface-Water Works,
by Dominik Hyngady, 5 pp.
GERMAN, per, Wasser-Abwasser, Vol CIII,
No 6, 1962, pp 138-142, (CALL NO TP 700
G25).

Army Map Service

Is Correct Planning Really So Difficult,
by Rolfr Pieplow, 9 pp.
GERMAN, per, Die Wirtschaft, No 3,
17 Jan 1962, p 10.

JPRS 13579

Budapest, by Klaus Nernheim, 11 pp.
GERMAN, per, Wirtschaftsgeographic,
Vol V, No 8, 1961, pp 233-240.

JPRS 13613

Cross Investment of East German Industry
1950 to 1960, 7 pp.
GERMAN, per, Wochenbericht Deutsches
Institut fuer Wirtschaftsforschung, No 3,
19 Jan 1962, pp 9-11.

JPRS 13579

Some Questions of Farm Economics in
East Germany, by O. Ruhle, 26 pp.
GERMAN, per, Z. fuer Agrarokonomik,
Vol IV, No 6, 1961, pp 241-246.

JPRS 13779

Eastern Europe
Economic (Contd)

Studies of Technico-Economic Gains
Through the Introduction of Enlarged
RR Clearance Gauges, by I. T.
Timoshchenkow.

GERMAN, per, Z. Organisation fue die
Zusammenarbeit der Eisenbahnen, No 6,
1961, pp 5-10.

*ACSI I-1265
ID 2196115

State of the East German Cellulose
and Paper Industry, by Georg Treske,
4 pp.

GERMAN, per, Zellstoff und Papier,
Vol XI, No 1, 1962, pp 1-3.

JPRS 13588

Automatic Regulators -- Manufacturing
and Development Trends in Hungary, by
Lengyel Istvan, 13 pp.

HUNGARIAN, per, Elemezesi Ipar,
Vol VIII, No 11, 1961, pp 324-333.

JPRS 13664

Ash Sintering Apparatus at the August
Bebel Factory, Zwickau, by Walter
Knaust, Helmut Kroner, 7 pp.

HUNGARIAN, per, Epitoanyag, Vol XIII,
No 9, 1961, pp 330-333.

JPRS 13787

Some Problems of the Hungarian Cities
in the Industrial Sphere, by Ference Boros,
21 pp.

HUNGARIAN, per, Foldrajzi Ertesito,
Vol X, No 3, 1961, pp 379-393.

JPRS 13575

Introduction of Automation Into
Plastics Pressing, by Kurt Hajduska,
6 pp.

HUNGARIAN, per, Gepgyartas, Vol I,
No 9, Dec 1961, pp 340, 341.

JPRS 13664

New All-wheel Drive, 65 Horsepower
Tractor, by Emil Rhorer, Bela Janko,
19 pp.

HUNGARIAN, per, Jarmuvek, Mezogazdasagi
Ceppek, Vol IX, No 11, 1961, pp 422-428.

JPRS 13664

Eastern Europe
Economic (Contd)

Instrumentation and Automation at
Almasfuzito, by Geza Pinter, 9 pp.
HUNGARIAN, per, Kohaszati Lapok,
Vol XCIV, No 11, 1961, pp 486-491.

JPRS 13596

Activity of the Scientific Railroad
Research Institute, by Karoly
Szentgyorgyi, 21 pp.
HUNGARIAN, per, Kozlekedestudomanyi
Szemle, Vol XI, No 12, 1961, pp 536-542.

JPRS 13588

Results and Tasks of Scientific
Research Work in the Development of
the Hungarian Railroads, by Jozsef
Nemeth, 14 pp.
HUNGARIAN, per, Kozlekedestudomanyi
Szemle, Vol XI, No 12, 1961, pp 543-548.

JPRS 13588

Trade Between the East and the West,
Part II, by Pal Peter, 11 pp.
HUNGARIAN, per, Kulkereskedelem, Vol V,
No 9, 1961, pp 3-5.

JPRS 13138

Biography of Dr. Aladar Schleicher,
by Jozsef Vero, 6 pp.
HUNGARIAN, per, A Magyar Tudomanyos
Akademia Műszaki Tudományok Osztalyának
Kozlemenyei, Vol XXIX, No 1/4, 1961,
pp 39-42.

JPRS 13528

Classification According to Income of
the Population Living From Wages,
Part I, by Laszlo Lengyel, 19 pp.
HUNGARIAN, per, Statisztikai Szemle,
Vol XL, No 1, 1962, pp 3-12.

JPRS 13579

Reducing the Production Running Time
of the Machine-Tool Industry, by
Laszlo Hodi, 4 pp.
HUNGARIAN, per, Ujítok Lapja, Vol XIII,
No 23, 3 Dec 1961, pp 11, 12.

JPRS 13539

Eastern Europe
Economic (Contd)

- The Future of Electric Power, by
Bela Havas, 12 pp.
HUNGARIAN, per, Villamossag, Vol IX,
No 11, 1961, pp 323-330. JPRS 13538
- Outlook on the Sino-Soviet Economic
Cooperation, (SF-2254).
JAPANESE, per, Ajia Kenkyu, No 315,
pp 2-10; No 316, pp 2-8; 14, 24 Apr 1962. *JPRS
- Polish Foreign Trade in 1961, by
Jan Niegowski, 5 pp.
POLISH, per, Handel Zagraniczny, No 2,
1962, pp 51-53. JPRS 13666
- Problems in General Execution of Con-
struction and Assembly Work, by
Adam Wysokinski, 16 pp.
POLISH, per, Investycje i Budownictwo,
No 12, 1961, pp 26-31. JPRS 13588
- Long Term Plan for Construction, by
Stanislaw Bec, 17 pp.
POLISH, per, Investycje i Budownictwo,
No XII, No 1, 1962, pp 1-6. JPRS 13588
- Construction in 1962, by Michal Zubelewicz,
17 pp.
POLISH, per, Investycje i Budownictwo,
Vol XII, No 1, 1962, pp 6-10. JPRS 13588
- State Agricultural Machine Station
Directors Discuss Cooperation With
Agricultural Circles, 8 pp.
POLISH, per, Mechanizacja Rolnictwa,
No 12, 1961, pp 4-6. JPRS 13714
- Centralized Use of Farm Equipment, by
Marian Ponikowski, 3 pp.
POLISH, per, Mechanizacja Rolnictwa,
No 12, 1961, p 27. JPRS 13714

Eastern Europe
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Mechanization of Yugoslav State Farms,
by Jerzy Andrezejewski, 7 pp.
POLISH, per, Mechanizacja Rolnictwa,
No 12, 1961, pp 28-30.

JPRS 13714

Problems in the Organizational
Structures of the Mazowieckie Oil
Refinery and Petrochemical Complex in
Plock, by Wiktor Szklarczyk, 8 pp.
POLISH, per, Nafta, No 11, 1961,
pp 312-315.

JPRS 13660

Further Intensification of the National
Economy, by Jozef Olszewski, 15 pp.
POLISH, per, Nowe Drogi, No 1, 1962,
pp 126-134.

JPRS 13579

Increase in Machine Exports is Foreign
Trade Goal, by Julian Gren, 9 pp.
POLISH, per, Nowe Drogi, No 1, 1962,
pp 135-143.

JPRS 13666

Concerning the Operation of Economic
Incentives, by Wlodozimierz Bus,
Bronislaw Fick, 15 pp.
POLISH, per, Nowe Drogi, No 1, 1962,
pp 175, 183.

JPRS 13579

Role of Agricultural Bank Toward Agri-
cultural Circles, by St. Tauliczek,
4 pp.
POLISH, per, Nowe Rolnictwo, Vol XI,
No 2, 15 Jan 1962, pp 8, 9.

JPRS 13779

Economics of Construction in the
Five-Year Plan, by Maksymilian Pszenicki,
16 pp.
POLISH, per, Przeglad Budowlany, Vol XXXIV,
No 1, 1962, pp 6-10.

JPRS 13679

**Eastern Europe
Economic (Contd)**

Review of Polish Electrical Products
on the Occasion of the Thirtieth Poznan
International Fair, by Janusz Kanclerz,
20 pp.
POLISH, per, Przeglad Elektrotechniczny,
No 5, 1961, pp 181-192.

JPRS 13539

Analysis of Dependence of Labor
Productivity and Net Cost on the Degree
of Loading Mechanization in Coal Mines,
by Eugeniusz Markiewicz, 6 pp.
POLISH, per, Przeglad Gorniczy, Nov 1961,
pp 1-4.

JPRS 13668

Investment Plan of the Ministry of
Communications for 1962, by Leon Walo,
11 pp.
POLISH, per, Przeglad Kolejowy, Vol XIII,
No 12, 1961, pp 444-447.

JPRS 13588

Development of Railroad Communications
Installations in Poland, by Jerzy Godwod,
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POLISH, per, Przeglad Kolejowy, Vol XIII,
No 12, 1961, pp 465-468.

JPRS 13588

Execution of Traction Tasks in 1956-1960,
by Jacek Mlodocki, 14 pp.
POLISH, per, Przeglad Kolejowy-
Mechaniczny, Vol XIII, No 12, 1961,
pp 352-358.

JPRS 13588

The Construction and Locations of Oat-
Flakes Factories in 1961-1965 Plan,
by Henryk Klamczynski, 12 pp.
POLISH, per, Przeglad Zbozowo-Mlynarski,
Vol V, No 10, 1961, pp 281-286.

JPRS 13571

Projected Tasks for Farmers' Mills in
1960-1980, by Ryszard Pol, 7 pp.
POLISH, per, Przeglad Zbozowo-Mlynarski,
Vol V, No 10, 1961, pp 299-301.

JPRS 13571

Eastern Europe
Economic (Contd)

Investments for Grains and Milling
Industry in 1962, by Zenon Szlapozynski,
7 pp.
POLISH, per, Przeglad Zbozowo-Mlynarski,
Vol VI, No 2, 1962, pp 35-37.

JPRS 13779

New Highly Efficient Tooling Machines
for the Automotive Industry, by
Kazimierz Bosiacki, 10 pp.
POLISH, per, Technika Motoryzacyjna,
No 12 (114), 1961, pp 433-436.

JPRS 13809

Budgets of People's Councils,
5 pp.
POLISH, per, Zycie Gospodarcze, No 1,
1962, p 4.

JPRS 13579

Use the Most Suitable Corn Hybrids for
High Yield, by D. Torje, 5 pp.
RUMANIAN, np, Agricultura Noua, Vol VIII,
No 796, 12 Mar 1961.

JPRS 13577

Decree No 664 of the Council of Ministers
Approving Nomenclature for Trades and
Specialities, 22 pp.
RUMANIAN, per, Colectia de Hotariri si
Dispozitii ale Consiliului de Ministri
al Republicii Populare Romane, Vol X,
No 29, 27 Oct 1961, pp 244-274.

JPRS 13680

Selected Articles From the Rumanian
Periodical Energetica, Vol VIII, No 12,
1960.

JPRS 13667

Achievement of the Ten Year
Electrification Plan, by Nicolae
Gheoghiu, 14 pp, (pp 517-522).

The Project for the V. I. Lenin
Hydroelectric Station, Bicaz on the
Bistrita River, by Alexander Nourescu,
Alexander Diaconu, 22 pp, (pp 523-536).

Eastern Europe
Economic (Contd)

Selected Articles From the Rumanian
Periodical Energetica, Vol VIII,
No 12, 1960. (Contd)

JPRS 13667

The Sadu V Hydroelectric Station,
by Dorin Pavel, Radu Priscu, 19 pp,
(pp 537-546).

The Moroeni Hydroelectric Station,
by Cristea Mateescu, Mircea
Sipiceanu, 20 pp, (pp 547-555).

The Paroseni Thermoelectric Central
Station, by C. Motoiu, F. Rouadedgeal,
16 pp, (pp 556-564).

The Steaua Rosie (Red Star) Thermo-
electric Central Station -- Singeorgiu
De Padure, by C. Constantinescu,
A. Haidu, 10 pp, (pp 565-570).

The Borzesti Thermoelectric Central
Station, by I. Borsa, I. Ciupuliga,
15 pp, (pp 571-580).

The Gh. Gheorghiu-Dej Thermoelectric
Central Station in Doicesti, by
M. Kraft, 14 pp, (pp 581-588).

The Development of Transmission and
Distribution of Electric Power
Between 1951 and 1960, by Emil
Constantinescu, 21 pp, (pp 589-599).

The Development of Thermofication
Within the Electrification Plan
Between 1951-60, by Ioan D. Stancescu,
9 pp, (pp 600-604).

**Eastern Europe
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Selected Articles From the Rumanian Periodical Energetica, Vol VIII, No 12, 1960. (Contd)

JPRS 13667

Creation and Development of the Energy Sector of Construction and Equipment, by Vlad Alexandru, 5 pp, (pp 605-609).

Raising the Technical Production Level in the Electric Energy Industry, by T. Popovici, 6 pp, (pp 610-612).

Specific Research, Dealing With the Process of Controlled Colmatage on the Experiment-Station Uzlina, by Steliana Buzeteanu, 16 pp.

RUMANIAN, per, Hidrotehnica, Bucharest, Rumania, 1961, pp 439-443, Call No TCI, H63, Vol VI, No 12.

Army Map Service

New Equipment for the Textile Industry, by M. Vizi, 5 pp.

RUMANIAN, per, Industria Textila, Vol XII, No 11, 1961, pp 450, 451.

JPRS 13588

The Geographic Distribution of Legumi-culture in the Rumanian People's Republic, by I. Iordan, Gh. Iacob, I. Velcea, 6 pp.

RUMANIAN, per, Natura, Vol XIII, No 6, Nov/Dec 1961, pp 21-28.

JPRS 13554

The Oil Industry in Full Swing of Development, 7 pp.

RUMANIAN, per, Petrol si Gaze, Vol XIII, No 1, 1962, pp 1-3.

JPRS 13596

**Eastern Europe
Economic (Contd)**

**Selected Articles From the Rumanian
Periodical Probleme Economice.**

- Vol XIV, No 8, 1961, pp 53-65.
The Major Importance of Oil Reserves,
by Nicolae Ionescu, 15 pp. JPRS 13596
- Vol XV, No 1, 1962.
The State Plan for 1962 -- The Third
Year of the Six-Year Plan, 19 pp,
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- The Supply of Qualified Personnel
to Socialist Agriculture, by
N. Dondera, 16 pp, (pp 31-45). JPRS 13577
- New Techniques in the Wood Processing
Industry, by Mihai Suder, 13 pp,
(pp 61-74). JPRS 13552
- Certain Aspects of the Technical and
Techno-Economic Problems in the Production
and Utilization of Precast Reinforced
Concrete Elements for Construction, by
M. Lupan, 22 pp.
RUMANIAN, per, Revista Constructiilor
si a Materialelor de Constructii, No 14,
Sep 1961, pp 450-462. JPRS 13787
- Contributions to the Agricultural
Geography of Petrosani Rayon, by
Arisztid Nagy, 8 pp.
RUMANIAN, per, Studia Universitatis
Babes-Bolyai, Vol II, 1959, pp 173-179. JPRS 13576
- Rural Economic Geography of Cradea
Regiune, by Valentina Carteva, 19 pp.
RUMANIAN, per, Studia Universitatis
Babes-Bolyai, Vol II, 1959, pp 181-198. JPRS 13576

Eastern Europe
Economic (Contd)

Contributions of the Maghiar Autonomous
Region to Economic Geography, by
Jeno Molnar, 19 pp.

RUMANIAN, per, Studia Universitatum
Victor Babes et Bolyai, Vol III, No 5,
1958.

JPRS 13527

Ferrous Metallurgy in the Hungarian
Peoples Republic, by Ishtvan Garamvelgi,
9 pp.

RUSSIAN, per, Metallurg, No 8, 1961,
pp 38, 39.

JPRS 13167

Locomotive and Railway Car Management
on Rumanian Railroads, by Konstantin
Stoyan.

RUSSIAN, per, Zheleznodorozhnyy Transport,
No 12, 1961, pp 13-18.

*ACSI I-1166
ID 2196084

Tracks and Track Maintenance on the
Rumanian National Railways, by Marin Merociu,
5 pp.

RUSSIAN, per, Zheleznodorozhnyy Transport,
No 12, 1961, pp 22-24.

ACSI I-1326-B
ID 2198513

Eastern Europe
Political

Our Age and Edvard Kardelj's "Dialectics,"
by Wu Chiang, 33 pp.
CHINESE, per, Hung-ch'i, No 5, 1 Mar 1962,
pp 17-37.

JPRS 13615

Situation in Recent Soviet Philosophy,
by Andrija Stojkovic, 20 pp.
CROATIAN, per, Nase Teme, Vol V,
No 12 (36), Dec 1961, pp 1806-1827.

JPRS 13710

The Barak-Novotny Conflict, by
Kristof Greiner, 5 pp.
GERMAN, per, Freie-Presse-Korrespondenz,
No 3, 1962, pp 1, 2.

JPRS 13783

"Izvestiya" Publishes Polish Economist's
Views on Geneva Disarmament Talks, by
Oskar Lange, 8 pp.
RUSSIAN, np, Izvestiya, 6 Apr 1962, p 5.

JPRS 13740

Teitelboim on the Albanian Party, by
Volodia Teitelboim, 4 pp.
SPANISH, np, El Siglo, No 3347,
18 Mar 1962, pp 11, 16.

JPRS 13649

Eastern Europe
Military

Mountain Warfare, by Branislav Rapos.
CZECH, rpt, Boj v Horach, 1958, pp 5-213,
Encl No 1 to R-32-62.

*ACSI I-1410
ID 2192387

Handbook for Military Drivers, by
Michal Vanik.
CZECH, bk, Prirucka pro Vojenske Ridice,
1961, 189 pp, Encl No 1 to R-38-62.

*ACSI I-1362
ID 2193482

Airborne Landings, by Josef Mrazek,
M. Pelc.
CZECH, rpt, Vzdusne Vysadky, 1951,
pp 5-190, Encl No 1 to R-29-62.

*ACSI I-1361
ID 2193480

Surprise From Otokovic.
CZECH, per, Kridla Vlasti, pp 14-16.

*ACSI H-8609
ID 2162121

The Agreement Between the Government
of the GDR and the Government of the
USSR Concerning Mutual Legal Aid in
Matters Connected With the Temporary
Stationing of Soviet Armed Forces on the
Territory of the GDR, by Oustmann,
W. Suchodrew, 7 pp.
GERMAN, per, Gesetzblatt der Deutschen
Demokratischen Republik, No 64, 1957,
pp 533-539.

ACSI I-1292
ID 2196117

Service Units of the Fire Fighting
and Rescue Actions, by
Wladzimierz Kazimierczak, 9 pp.
POLISH, per, Przeglad Pozarniczy,
No 5, 1961, pp 9-11.

JPRS 13663

New Regulations for Fire-Fighting
Competitions, by Stanislaw Golan, 17 pp.
POLISH, per, Przeglad Pozarniczy,
No 5, 1961, pp 12-15.

JPRS 13663

Fire-Fighting Equipment for Eliminating
the Hazards of Smoke and Gas, by
Jerzy Lankajtes, 8 pp.
POLISH, per, Przeglad Pozarniczy,
No 5, 1961, pp 17-19.

JPRS 13663

Eastern Europe
Military (Contd)

Jet Trainers, by Zbigniew Jankiewicz,
8 pp.

POLISH, per, Skrzydla Polska, No 2,
(549), 1962, pp 8, 9. 9676773

FTD-TT-62-399

Present Demands and Technical Knowledge
in Artillery, by Ignacy Szczesnowicz,
4 pp.

POLISH, per, Zolnierz Wolnosci, Vol XIII,
No 33, 8 Feb 1962, p 2.

JFRS 13663

Geographic

Changes in Geographical Names, by
Sandor Rado, 6 pp.

HUNGARIAN, per, Geodezia es Kartografia,
Vol XIV, No 1, 1962, pp 60, 61.

JPRS 13215

Soil Conditions and the Planned Measures
Against Soil Erosion in the Middle
Sudeten, by Adam Oswiecimski, 6 pp.

POLISH, per, Gospodarka Wodna, Vol XV,
No 6, 1955, pp 267, 268.

OTS 60-21547
PL-480

Eastern Europe
Sociological

Activities of School Party Organiza-
tions for Raising the Standards of
Educational Work, by Ivan Proynov, 10 pp.
BULGARIAN, per, Narodna Prosveta,
Vol XVII, No 12, 1961, pp 20-27.

JPRS 13028

Sections of the Socialist Union, 18 pp.
CROATIAN, per, Jugoslavenski Pregled,
No 12, 1961, pp 507-510.

JPRS 13485

Vocational Education and the Implementa-
tion of the New Conceptions About Advanced
Schools, by Dragomir Filipovic, 39 pp.
CROATIAN, per, Produktivnost, No 12, 1961,
pp 809-824.

JPRS 13648

Fluctuation and Personal Income Problems
in the Economy, by Anton Polajnar, 19 pp.
CROATIAN, per, Socijalna Politika, No 12,
1961, pp 1119-1127.

JPRS 13485

Czechoslovakian Law on Criminal Judicial
Procedure, 194 pp.
CZECH, rpt, Sbirka Sakema Ceskoslovenske
Socialisticke Republiky, No 66, 9 Dec 1961,
pp 513-571.

JPRS 13729

The Development of Views of the Concept
and Delimitation of Population Centers,
by Josef Hursky, 16 pp.
CZECH, per, Demografie, No 3, Jul 1961,
pp 233-244.

JPRS 13485

New Features in Hungary's Settlements,
by Michael Haltenberger, 13 pp.
HUNGARIAN, per, Geographische Rundschau,
Vol XIII, No 11, 1961, pp 432-438.

JPRS 13305

Scientific Progress and Contemporary
Theology, by Jozsef Lukacs, 20 pp.
HUNGARIAN, per, Tarsadalmi Szemle,
Vol XVI, No 10, 1961, pp 66-85.

JPRS 13159

Eastern Europe
Sociological (Contd)

**Employment and Working Conditions, by
Wladyslaw Doberski, 7 pp.
POLISH, per, Zycie Gospodarcze, No 51,
17 Dec 1961, p 4.**

JPRS 13184

**Selected Articles From the Rumanian
Periodical Muncitorul Sanitar.**

**Vol XIII, No 7, 17 Feb 1962, pp 1, 2.
Important Objectives of the Sanitation-
Antiepidemic Sector, by Ioan Spinu, 5 pp.**

JPRS 13420

**Vol XIII, No 8 (612), 24 Feb 1962, p 1.
Child Health Care: A Central Problem,
4 pp.**

JPRS 13420

**Vol XIII, No 9 (613), 3 Mar 1962,
pp 1, 4.
Scientific Research in the Service
in Public Health Care, 6 pp.**

JPRS 13420

**Vol XIII, No 10 (614), 19 Mar 1962,
pp 1, 3.
Activity Report of the Central Committee
of the Rumanian Red Cross, by
Anton Moisescu, 16 pp.**

JPRS 13782

**Church and State in the People's
Hungary, by Shandor Orban, (SF-1876).
RUSSIAN, per, Nauka i Religiya, No 5,
1962, pp 65-67.**

*JPRS

NORTHERN EUROPE

Economic

Danish Security Company, Danish Alarm Systems Company, 9 pp.
DANISH, rpt, Danske Securitas, 16 pp.

ACSI I-1149
ID 2196075

Industry in the Turku Area, by N. Bjarklund, 12 pp.
FINNISH, per, Teknillinen Aikakauslehti, Helsinki, pp 362-366, (EIF 383235).

Army Map Service

Turku's Shipbuilding Industry, by S. Eka, S. Ekman, 6 pp.
FINNISH, per, Teknillinen Aikakauslehti, Helsinki, pp 369-372, (EIF 383235).

Army Map Service

Turku's Foodstuff Industry, 16 pp.
FINNISH, per, Teknillinen Aikakauslehti, Helsinki, 1957, Vol XLVII, No 14/15, pp 375-380, (Call No T4, T267).

Army Map Service

Changes in New Road Law Legislation, by V. Vuorionies, 11 pp.
FINNISH, per, Tielehti, Vol XXXI, No 4, 1961, pp 10-12, (Call No TE4.S95).

Army Map Service

Road Conditions in Northern Savo, by R. Kajander, 9 pp.
FINNISH, per, Tielehti, Vol XXXI, No 4, 1961, pp 36-41, (Call No TE4.S95).

Army Map Service

The Systems of Water Pipelines Expanded by 1139.5 km During the Past Five Years, 5 pp.
SWEDISH, per, Finsk Kommunaltidskrift, Vol XLVI, No 9, 1961, p 490, (Call No NA 9241, F 5F5, Helsinki, Finland).

Army Map Service

Northern Europe
Political

Danish Social Democracy and the Socialist
People's Party, by Gert Petersen, 8 pp.
DANISH, np, SF, Vol IV, No 16, 20 Apr 1962,
p 2.

JPRS 13754

Fundamental Principles, 5 pp.
FINNISH, Encl 1 to Desp 592, AmEmbassy,
Helsinki, 6 Apr 1962.

Dept of State

Preparations for the Communist Youth
Festival in Helsinki, by Jean-R. de Ziegler,
(DC-6839).
GERMAN, np, Neue Zuercher Zeitung, No 117,
1 May 1962.

*JPRS

Norwegian Communist Views on Youth
Activities, by Per Svensson, 7 pp.
NORWEGIAN, per, Veien Fram, No 1, 1962,
(Supplement to Friheten, 14 Apr 1962,
pp 11-14).

JPRS 13737

Swedish Communist Sees Need for Policy
of Party Unity, by Bo Gustafsson, 9 pp.
SWEDISH, np, Ny Dag, No 88, 89;
14, 16 Apr 1962.

JPRS 13650

Lessons From the 22d CPSU Congress, by
Axel Jansson, 14 pp.
SWEDISH, per, Var Tid, Vol XVIII, No 1,
1962, pp 13-20.

JPRS 13754

Swedish Central Committee Statement on
Personality Cult Settlement, 5 pp.
SWEDISH, per, Var Tid, Vol XVIII, No 1,
1962, pp 24-26.

JPRS 13754

Northern Europe
Military

Finnish Field Manuals.
FINNISH, manuals, No 1-5, 1947-1959.

ERDL, Ft Belvoir T-186

Special Swedish U. N. Emergency Force,
7 pp.
SWEDISH, rpt, 2 Dec 1960, Encl to R-36-62,
OUSARMA, Stockholm, Sweden.

ID 2196511

Civil Defense Board Desires to Remain
Subordinated to Home Office Department.
SWEDISH, per, Aktuellt om Civilforsvar,
3 Feb 1962, Encl to R-34-62, OUSARMA,
Stockholm, Sweden.

ID 2195915

Grouping of Civil Defense Units, 5 pp.
SWEDISH, per, Aktuellt om Civilforsvar,
26 Feb 1962, Stockholm, OUSARMA, Sweden,
Encl to R-60-62.

ID 2198926

Activities in the Material Bureau
During 1961.
SWEDISH, per, Svensk Intendentur Tidskrift,
No 2, 1962, pp 55-62.

*ACSI I-1369-A
ID 2198520

The M/39-60 Cloak.
SWEDISH, per, Svensk Intendentur Tidskrift,
No 2, 1962, pp 68-70.

*ACSI I-1369-B
ID 2198520

Tropical Uniform M/61.
SWEDISH, per, Svensk Intendentur Tidskrift,
No 2, 1962, pp 76, 77.

*ACSI I-1369-C
ID 2198520

Sociological

Physiological, Hygienic and Technical
Problems Involved in the Long-Term
Occupation of Shelters, by Hans E. Ronge,
Arthur G. Astrom, 9 pp.
SWEDISH, per, Tidskrift i Militar Halsovard,
Vol III, 1961, Encl 3 (QMC) to Attaché
Liaison Ltr, QACSI, 20 Apr 1961, R-199-61.

ID 2198311

NEAR EAST/AFRICA

Economic

Note on the Problem of Unemployment
in the Congo and in Particular on the
Problem of Aid to Unemployed Workers,
3 pp.

FRENCH, Encl to Desp 862, AmEmbassy,
Brussels, 27 Mar 1962.

Dept of State

Code of Criminal Procedure of Kingdom
of Morocco, 32 pp.

FRENCH, rpt, Code de Procedure Penale,
Law No 1-58-261, 10 Feb 1959, pp 1-13,
143-149.

JPRS 13773

Iron and Manganese Ore Deposits in
Africa, by E. A. Scheibe.
GERMAN, per, Stahl und Eisen, Vol LXXXII,
1 Feb 1962, pp 137-146.

BISI 2687

The National Industrial Potential and
National Defense, 6 pp.
GREEK, rpt, Athanasiros Giannoulopoulos,
Col Infantry, 1958, pp 44-49.

ACSI I-0978
ID 2191524

Providing Our State Railways With
Diesel Engines, by Tasoy Zappa.
GREEK, per, Sygkoinonia, Vol XI, 1961,
pp 1561-1562.

*ACSI I-1391
ID 2198531

Development of Israeli Water Projects,
(NY-7084).
HEBREW, nps, Tel Aviv, Apr 1962.

*JPRS

Colonialism and Public Health in Africa,
by V. S. Grazhul', Yu. P. Lisitsyn, 3 pp.
RUSSIAN, bk, Kolonializm i Zdravookhraneniye
v Afrike, 1961, pp 139-142.

JPRS 13789

Transportation Problems in Ethiopia, by
Juraj Siprak, 16 pp.
RUSSIAN, per, Gradjevinar, Zagreb,
pp 373-381, Call No TA 4, G 73, Vol XIII,
No 12.

Army Map Service

Near East/Africa
Political

Real Estate: New Land Promulgated
Covering Field of Corporeal Securities
and Mortgages, 3 pp.
ARABIC, Encl 1 to Desp 138, AmEmbassy,
Kuwait, 10 Mar 1962; CERP D-12;
Condes 101, 25 Oct 1960.

Dept of State

Open Letter to the Members of the League
of Arab States and Iran, by Emile Bustani,
11 pp.
ARABIC, Encl 2 to Desp 507, AmEmbassy,
Beirut, 28 Mar 1962.

Dept of State

We Have Not Lost Hope, John Kennedy,
4 pp.
ARABIC, np, al-Wahdah, 11 Apr 1962;
Encl 1 to Desp 261, AmEmbassy, Damascus,
16 Apr 1962; Embtel 660 to Dept, 11 Apr.

Dept of State

What the Congolese Situation Shows, by
Kuo Chi-chou, Wu Hsiu, 10 pp.
CHINESE, per, Hung-ch'i, No 5, 1 Mar 1962,
pp 1-7.

JPRS 13615

Declaration of Guarantees, Part I,
General Dispositions, 8 pp.
FRENCH, Encl 1 to Desp 234, AmConGen,
Algiers, 23 Mar 1962.

Dept of State

Address Delivered March 19, 1962,
by Mr. Jean Morin, Delegate General
in Algeria, Over Radio and Television,
by Jean Morin, 6 pp.
FRENCH, Encl 1 to Desp 237, AmConGen,
Algiers, 23 Mar 1962.

Dept of State

Address of His Majesty Hassan II.
On the Occasion of the First Anniversary
of His Accession to the Throne March 3, 1962,
12 pp.
FRENCH, Encl 1 to Desp 482, AmEmbassy,
Rabat, 20 Mar 1962; Embassy's A-326,
7 Mar 1962.

Dept of State

Near East/Africa
Political (Contd)

Zachariades Has Asked To Be Repatriated,
4 pp.
GREEK, np, Eloftheria, Vol XLIV, No 5382,
5 Apr 1962, pp 1, 7.

JPRS 13622

Zachariades Defends His Letter, by
N. Zachariades, 4 pp.
GREEK, np, To Vima, Vol XVII, No 5171,
6 Apr 1962.

JPRS 13622

Leader of Israeli Leftist Ahдут 'Avodah
Party Discusses Possible Union With Mapsi,
by Yosef 'Avron, (DC-6804).
HEBREW, np, Haboker, 27 Apr 1962, pp 4, 5.

*JPRS

Afro-Asian Writers Stress Translation as
Anti-Imperialist Tool, by Teru Takakura,
5 pp.
JAPANESE, np, Akahata, 16 Apr 1962.

JPRS 13754

Legislation Concerning the Entry, Transit
and Residence of Foreigners in the Province,
10 pp.
PORTUGUESE, Encl 1 to Desp 248, AmConGen,
Lourenco Marques, 14 Mar 1962.

Dept of State

Africa, by I. I. Potekhin,
(DC-6827).
RUSSIAN, bk, Afrika, Moscow, 1961, 253 pp.

*JPRS

Nigeria in the Struggle for Independence,
by L. N. Pribytkovskiy, 191 pp, (NY-7108).
RUSSIAN, bk, Nigeria In the Struggle for
Independence, Moscow, 1961.

*JPRS

Preamble, Covering Memorandum and Pro-
visions of Law Against Deeds Disturbing the
Constitutional Order, National Security and
National Tranquillity, 4 pp.
TURKISH, Encl 1 to Desp 457, AmEmbassy,
Ankara, 7 Mar 1962.

Dept of State

Near East/Africa
Geographic

The Real Rights of Israel and Syria
Over the Kinereth, 4 pp.
HEBREW, np, Haolam Hazeh, 28 Mar 1962;
Encl to 109-62 to USNA, Tel Aviv,
13 Apr 1962.

Dept of Navy
ONI 5144186

Sociological

Social Structure and Baponou Villages,
by J. Cl. Pauvert, 10 pp.
FRENCH, memoir, Les Villages Gabonais,
Memoires de l'Institut de Etudes
Centrafricaines, Bazzaville, 1952,
pp 39-46.

JPRS 13605

Social Structure and Fang Villages, by
G. Balandier, J. Cl. Pauvert, 14 pp.
FRENCH, memoir, Les Villages Gabonais,
Memoires de l'Institut de Etudes
Centrafricaines, Brazzaville, 1952,
pp 47-57.

JPRS 13605

Code of Penal Procedure, Law No 1-58-261,
(NY-7085).
FRENCH, rpt, De Procedure Penale, 10 Feb 1959,
pp 1-13, 143-149.

*JPRS

The Senoufo Peasants of Korhogo, by
Sinali Coulibaly, 40 pp.
FRENCH, per, Les Cahiers D'Outre-Mer
Revue de Geographie, Vol XIV, No 53,
Jan/Mar 1961, pp 26-59.

JPRS 13605

Notes on the Sociological Function of
Yombe Parareligious Forms, by
Albert Doutreloux, 9 pp.
FRENCH, per, Zaire, Vol XV, No 1, 1961.

JPRS 13605

The Upsurge of the Workers Movement in
the Countries of Asia and Africa, 15 pp.
RUSSIAN, per, Kommunist, No 6, 1962,
pp 103-111.

JPRS 13774

ASIA

Economic

Geographic Survey Data on Agriculture
and the Livestock Industry in Parts
of Szechwan and Yunnan Provinces
Communist China, by Chao Sung-ch'iao,
Kuo Yang, et al, (DC-6835).
CHINESE, monograph, Ch'u-an-tien
Nung-mu Chiao-ts'o Ti-ch'u Nung-mu-yeh
Ti-li Tiao-ch'a, Tzu-liao, Nov 1959,
pp 1-72.

*JPRS

Chinese Methods in Hog Raising, by
Ch'ang Tsung-hui, (DC-6793).
CHINESE, monograph, Chung-kuo
Yang-chu Fa, Dec 1957, pp T of C,
pp 1-10, 17-18, 24-69, 98-99, 133-134,
152-155, 165-167, 191-192, 194-219,
234, 289-290, 292-319.

*JPRS

Economic Geography of South China,
(SF-2233).
CHINESE, bk, Hua-nan Ti-ch'u Ching-chi
Ti-li, Peiping, June 1959, pp 1-147.

*JPRS

Economic Geography of Southwest China,
(SF-2231).
CHINESE, bk, Hsi-nam Ti-ch'u Ching-chi
Ti-li, Peiping, Feb 1960, pp 1-202.

*JPRS

Paddy Rice, by Shen Hsueh-nien,
(SF-2226).
CHINESE, monograph, Shui Tao, Aug 1956,
pp 1, 2, 4-8, 18-43, 59-74.

*JPRS

Economic Geography of Northeast China,
(SF-2232).
CHINESE, bk, Tung-pei Ti-ch'u Ching-chi
Ti-li, Peiping, Dec 1959, pp 1-211.

*JPRS

Communist China Digest, No 60.

JPRS 13547

Communist China Digest, No 61.

JPRS 13731

Communist China Digest, No 62.

JPRS 13828

Asia
Economic (Contd)

Selected Articles From the Chinese
Periodical Ching-chi Yen-chiu,
No 2, 17 Feb 1962. (DC-6815).

*JPRS

Several Problems in the Over-All
Argument on the Beneficial
Economic Results of the Distribution
of Large-Scale Water Conservation
Pivots, by Feng Hua-te, Huang Tsai-yao,
(pp 1-10).

The Viewpoint of the Physiocratic School
Cannot Be Used to Explain Why Agri-
culture Is the Foundation of the
National Economy, by Teng K'o-sheng,
(pp 25-34).

Some of the Economic Workers and
Economic Theory Workers in Peiping
Hold Discussions on How to Achieve
Further Developments in Research Into
the Question of Economic Results Under
a Socialist System, (pp 48-51).

Brief Summary of Divergent Points Put
Forward During Discussions on the
Question of Economic Results Under
a Socialist System, by Yuan, (pp 51-54).

Selected Articles From the Chinese
Periodical Chung-kuo Ching Kung-yeh.

No 1/3, 13, 28 Jan; 13 Feb 1960.
(SF-2238).
Light Industry in Communist China.

*JPRS

No 4/6, 1960. (NY-7104).
Light Industry in Communist China.

*JPRS

No 7/9, 1960. (DC-6817).
Light Industry in Communist China.

*JPRS

No 10/12, 1960. (DC-6818).
Light Industry in Communist China.

*JPRS

Asia
Economic (Contd)

Development and Plans for Hupeh's Fu River Basin, by Pu Ya-lin, (SF-2241).
CHINESE, per, Chung-kuo Shui-li,
No 10, 1957, 15 Oct 1957, pp 5-8.

*JPRS

Selected Articles From the Chinese Periodical Hung-ch'i.

No 18, 16 Sep 1959, pp 35-41,
(SF-2242).
The Ever Expanding Agriculture of Hopeh Province, by Chang K'o-jang.

*JPRS

No 6, 16 Mar 1962.
From the Principle of Return of Loans to the Supervisory Role of the Bank, by Li Tso-wen, 6 pp, (pp 11-14).

JPRS 13683

Some Rustic Suggestions Concerning the Chain Development and Composite Utilization of Ailanthus Glandulosa, Castor-Oil Plant, Castor-Oil Plant Silkworm, and Parasitic Bee (Entomophage), by Chu Hsi, 15 pp, (pp 34-41).

No 7, 1 Apr 1962.
Several Problems in the Socialist Expansion of Reproduction, by Su Hsing, 15 pp, (pp 1-9).

JPRS 13723

An Important Policy for the Guidance of Agricultural Production, by Chang Ching, 20 pp, (pp 10-15).

Strengthen Cost Control Further, by Chao Shao-p'ing, 13 pp, (pp 20-23).

Asia
Economic (Contd)

Translations From Jen-min Jih-pao,
No 62.

CHINESE, np, Jen-min Jih-pao,
15 Feb-16 Mar 1962.

JPRS 13676

Translations From Jen-min Jih-pao,
No 63.

CHINESE, np, Jen-min Jih-pao,
20-31 March 1962.

JPRS 13700

The Preliminary Classification of
China's New Alloy Steel System and
the Properties and Characteristics of
Its Major Types, by Ju-chi'ih Ch'iu,
26 pp.

CHINESE, per, Kang-t'ieh, 27 Jul 1959,
pp 602-608. 9676335

FTD-TT-61-71

Translation From Kuang-ming Jih-pao,
No 28.

CHINESE, np, Kuang-ming Jih-pao,
13-17 Mar 1962.

JPRS 13531

Translations From Kuang-ming Jih-pao,
No 29.

CHINESE, np, Kuang-ming Jih-pao,
19 Mar-1 Apr 1962.

JPRS 13713

Translations From Kuang-ming Jih-pao,
No 30.

CHINESE, np, Kuang-ming Jih-pao,
25 Mar-15 Apr 1962.

JPRS 13808

Ten Years of Chinese Bridge-Building,
by Po-lin Han, 46 pp.

CHINESE, per, Kung-ch'eng Chien-she,
1959, pp 25, 26, 28-35, Call No TA 4,
K 96, 1959, No 9.

Army Map Service

Discussion of Enterprise Economic
Business Accounting, by Wen Yeh-ching,
et al, (NY-7112).

CHINESE, np, Kung-jen Jih-pao, 24, 27 Feb;
3, 6, 8, 10, 13, 15 Mar 1962, p 2 of each
issue cited.

*JPRS

Asia
Economic (Contd)

The Food Industry in Communist China,
(NY-7100).

CHINESE, per, Shih-p'in Kung-yeh,
Nos 1-6, 1960.

*JPRS

Translations From "Ta Kung Pao," No 41.
CHINESE, np, Ta Kung Pao, 14-21 Mar 1962.

JPRS 13550

Translations From "Ta Kung Pao," No 42.
CHINESE, np, Ta Kung Pao, 26 Mar-8 Apr 1962.

JPRS 13637

Distribution of Sugar Producing Crops in
Communist China, by Wang I-fei, (NY-7113).
CHINESE, per, Ti-li Chih-shih, No 10,
1959, pp 455-457, 477.

*JPRS

A Revolution in Rice Cultivation in
Communist China, by Li Ching-yu, (DC-6837).
FRENCH, per, Cahiers Franco Chinois,
No 11, Oct 1961, pp 103-107.

*JPRS

Statement of Electricity Department of
Cambodia, (SF-2247).
FRENCH, np, Realites Cambodgiennes,
No 305, 4 May 1962, pp 16-17.

*JPRS

China's No 1 Problem -- Agriculture,
(DC-6838).
GERMAN, np, Die Andere Zeitung, 5 Apr 1962,
p 10.

*JPRS

On the Antarctic Expedition Ship R. S. A.,
17 pp.
JAPANESE, Encl 2 to 307-62 to USNA,
Tokyo, 6 Apr 1962.

Dept of Navy
ONI 5143531

Basic Problems of Asian Primary Products
(Investigation and Research Report
Series 9), (DC-6830).
JAPANESE, bk, Ajia dai ichi ji shohin
nu kihon mondai, Mar 1961, pp 1-306.

*JPRS

Asia
Economic (Contd)

Analysis of New China's Economy:
Commodity Price Edition, by Tao Keizai
Kenkyukai, (DC-6836).
JAPANESE, monograph, Shin Chugoku
Keizai no Bunseki: Bukka Hen, 1961,
pp i-iv; 1-96, 156-246.

*JPRS

Selected Articles From the Japanese
Periodical Ajia Keizai Jumpo.

No 483, 21 Oct 1961, pp 1-12,
(NY-7081).
Production and Export of Tung Oil
in Communist China.

*JPRS

No 492, 21 Jan 1962, pp 1-14,
(NY-7080).
Fiber-Yielding Plants in Communist
China.

*JPRS

No 495, 21 Feb 1962, pp 1-11,
(SF-2253).
Successful Adjustment of
Industries in Communist China,
by Fukushima Yutaka.

*JPRS

No 498, 21 Mar 1962, pp 1-9,
(SF-2251).
Qualitative Development of Light
Industry in Communist China, by
Fukushima Yutaka.

*JPRS

Communist China's Broadcasting Industry,
(SF-2252).
JAPANESE, per, Ajia Kenkyu, No 307, pp 2-6;
No 308, pp 4-9; No 309, pp 6-12;
20, 27 Feb, 6 Mar 1962.

*JPRS

Asia
Economic (Contd)

Some Controversial Aspects of the Effective Use of Defense Budget and Its Long-Range Planning, by Ryoitsu Mabuchi, 8 pp.
JAPANESE, per, Heiki to Gijutsu, No 8, 1961, pp 33-39, Encl No 1 to R-451-61, Tokyo, Japan.

ACSI I-1142-A
ID 2179198

The Second Defense Buildup Program and Some Moves Seen in the Defense Industry, by Keiichi Masaayam, 6 pp.
JAPANESE, per, Heiki to Gijutsu, No 8, 1961, pp 40-44, Encl No 1 to R-451-61, Tokyo, Japan.

ACSI I-1142-B
ID 2179198

Studies on Cutting Characteristics of Ploughs. Part II. Soil Sticking to the Plough, by H. Kabureki, M. Kisu.
JAPANESE, per, Journal of the Kanto-Tosan Agricultural Experiment, No 16, 1960, pp 309-322.

NLL M.4600

Electronics Parts Industry: A Study of Employment Figures, General Organization, Production, Investment, Export, 7 pp.
JAPANESE, per, Nikkan Kogyo Shimbun, 6-9 Dec 1961. 9664172 Rpt No 0216/62

500th INTC Gp
Doc No 105589 (la)

Japan's Pre-Mixed Concrete Industry, 5 pp.
JAPANESE, per, Nikkan Kogyo Shimbun, 9 Mar 1962. 9664715 Rpt No 0767/62

500th INTC Gp
Doc No 105919 (la)

The Role of Machine Stock-Farming Station in the Agricultural Development of Agricultural Cooperatives, by N. Chuluundorj, (DC-6814).
MONGOLIAN, per, Ediyn Dzasag Erhiyn Asuudal, No 1, Feb 1962, pp 19-24.

*JPRS

Asia
Economic (Contd)

Mongolian Coal Resources, (DC-6834).
MONGOLIAN, per, Shinjleh Uhaan,
Dec 1961, pp 19-21.

*JPRS

Manpower Must Be Distributed Properly,
by D. Tsedeb, 5 pp.
MONGOLIAN, np, Unen, 5 Mar 1962, p 2.

JPRS 13753

The Coal Industry of the Peoples
Republic of China, by I. I. Bazhenov,
I. A. Leonenko, A. K. Kharchenko,
(SF-2225).

RUSSIAN, bk, Ugol'naya Promyshlennost'
Kitayskoy Narodnoy Republiki, 1959,
pp 23-25, 77-78, 286-289, 313-342,
342-377, 378-400, 456-477.

*JPRS

Problems of Electric Power Regional-
ization of the Example of the Chinese
People's Republic, by Syuy Shou-bo,
(DC-6779).

RUSSIAN, per, Elektrichestvo, No 12,
1960, pp 15-20.

*JPRS

Customs and Habits of the Bahnar Tribes
in Binh, by Moc Hunog.
VIETNAMESE, rpt.

*ACSI I-1330
ID 2198515

Customs of Habits of the Hre Tribe
(in Bato, Quang Ngai Province).
VIETNAMESE, rpt.

*ACSI I-1331
ID 2198516

Asia
Political

Chronology of Domestic and Foreign
Events (China), (DC-6822).
CHINESE, per, Hsin-hua Pan-yueh-k'an,
No 15, 17, 19-24, 1960, pp 183-185.

*JPRS

Selected Articles From the Chinese
Periodical Hung-ch'i.

No 5, 1 Mar 1962.
Enslavement or Progress?, by
Ch'en Yuan, 5 pp, (pp 8-10).

JPRS 13615

The Problem of Affirmation and
Negation in Knowledge, by
Kung Yu-chih, 14 pp, (pp 13-16).

No 6, 16 Mar 1962.
Communist Party Members Should
Be the Loyal Representatives of
the Masses of the People, by
Tu Ching, 10 pp, (pp 1-7).

JPRS 13683

Proceed From the Whole Situation,
by Ch'en Chan-ch'ao, 4 pp, (pp 8-10).

Truth of the So-Called "Arm of
Freedom", by Ch'en Yuan, 6 pp,
(pp 27-31).

Under the Smokescreen of "Whole-
People Welfare", by Chang Chen-ya,
4 pp, (pp 31-33).

No 7, 1 Apr 1962, pp 29-37.
Spontaneity and Awareness of the
Chinese Peasants' Wars, by
Ning K'o, 30 pp.

JPRS 13723

Peiping and Moscow Seeking to
Normalize Relations -- A French
Conservative Comment, by
J. Jacquet-Francillon, 3 pp.
FRENCH, np, Le Figaro, 16 Apr 1962,
p 4.

JPRS 13775

Asia
Political (Contd)

General Report To and Resolutions
Passed by the Fourth Plenum of the
Central Committee of the Indonesian
Communist Party, (DC-6821).
INDONESIAN, np, Harian Rakjat,
25-28, 30 Apr 1962.

*JPRS

Politico-Social Structure of Indonesia
(Investigation and Research Report
Series No 13), (DC-6850).
JAPANESE, rpt, Indonesia no Seiji
Shakai Kozo, 15 Aug 1961, pp i-ii,
1-259.

*JPRS

Prospects for 1962 - From the View-
point of World Strategy, 11 pp.
JAPANESE, pam, Sea and Air Research
No 296, 9 Feb 1962; Encl 1 to 200-62
to USNA, Tokyo, 6 Mar 1962.

Dept of Navy
ONI 5141299

Dissident Japanese Communist Views
Internationalists and Dogmatic
Nationalists, by Masao Yumoto, 24 pp.
JAPANESE, per, Atarashii Jidai,
Mar 1962, pp 74-84.

JPRS 13754

Communist China's Southernmost Outpost,
by Hamano Masami.
JAPANESE, per, Tairiku Mondai, Feb 1962.
9664725 Rpt No 0800/62

500th INTC Gp
Doc No 105661

The Tasks Before the Educational
Organs, 4 pp.
KOREAN, per, Inmin Kyoyuk, Jan 1962,
pp 2-4.

JPRS 13791

A Plan for Instruction of the Party
Congress Records, 12 pp.
KOREAN, per, Inmin Kyoyuk, Jan 1962,
pp 13-18.

JPRS 13791

A Few Problems Arising From the Study
of the Party Constitution, 7 pp.
KOREAN, per, Tang Saop, Jan 1962,
pp 27-31.

JPRS 13791

Asia
Political (Contd)

In Order to Elevate the Quality of
the Training Program of the City
(District) and County Party School,
by Lee, Yang Hoon, 6 pp.
KOREAN, per, Tang Saop, Jan 1962,
pp 39-42.

JPRS 13791

Government Organization Law, 12 pp.
KOREAN, Law No 734, 2 Oct 1961,
pp 433-436.

JPRS 13711

At the Central Committee of the
Mongolian People's Revolutionary
Party, 7 pp.
MONGOLIAN, np, Umen, 24 Mar 1962, p 1.

JPRS 13753

Importance of Supervision of the
Masses, 5 pp.
MONGOLIAN, np, Umen, 29 Mar 1962, p 1.

JPRS 13753

Law No 13/56 of August 1, 1957,
Regulating Trademarks and Tradenames,
6 pp.
VIETNAMESE, Encl 1 to Desp 419,
AmEmbassy, Saigon, 10 Apr 1962,
EmbDespatch No 427, 6 Jun 1960;
Dep Inst W-53, 9 Nov 1961.

Dept of State

Let Us Make the Party Statute a Sharp
Weapon in Party Activities, by
Vu Duong, 8 pp.
VIETNAMESE, per, Hoc Tap, No 2, 1962.

JPRS 13685

The Church With Respect to the Building
of the North and the Struggle for
National Reunification, by The Hung,
9 pp.
VIETNAMESE, per, Hoc Tap, No 2, 1962.

JPRS 13685

Let Us Step Up the Organization Task
and Improve the Organizational Norm
to Make it Keep Pace With the Political
Norm, by Le Du Tho, 10 pp.
VIETNAMESE, per, Hoc Tap, No 2, 1962.

JPRS 13685

Asia
Military

Strategic Intelligence - Life's Work
of Colonel Shinich: Kosaka - Japanese
Army.
JAPANESE, rpt.

*ACSI I-1327
ID 2198514

How To Have a Better Company, by
Ichiji Sugita.
JAPANESE, rpt, 279 pp.

*ACSI I-1366
ID 2198517

The Present Condition of the Japan
Self Defense Forces, 35 pp.
JAPANESE, rpt, 1 Jan 1962.

AF 1498022

Some of My Impressions While at the
Royal Naval Staff College, by
Keizo Chashi, 16 pp.
JAPANESE, Encl 1 to 305-62 to USNA,
Tokyo, 6 Apr 1962.

Dept of Navy
ONI 5143734

GSDF Requests Purchase of Type-62
Machine Guns, 3 pp.
JAPANESE, per, Boei Nippo, 10 Jan 1962.
9675882.

500th INTC Gp
Tr No 105643

JCP-Affiliated Mass Movement Centering
on Bases, 3 pp.
JAPANESE, np, Shimbun, 17 Mar 1962;
Encl to 271-62 to USNA, Tokyo, 2 Apr 1962.

Dept of Navy
ONI 5143402

Geographic

The Wandering Yellow River, by
V. T. Zaychikov, 31 pp.
RUSSIAN, bk, Bluzhdauyshchaya Reka
Khuankhe, 1957, 40 pp.

JPRS 13745

The Climate of China, by Ch'en Shih-hsun,
392 pp.
RUSSIAN, bk, Klimat Kitaya, 1961,
pp 5-341.

JPRS 13529

Asia
Sociological

A New Course in Bank Accounting, by
Li T'ien-min, (DC-6806).

CHINESE, monograph, Hsin Yin-hang
K'uai-chi Chiao-ch'eng, Vol I, 1952,
pp 1-310.

*JPRS

Three Throughts on the Historical Drama,
by Tai Pu-fan, 18 pp.
CHINESE, per, Hung-ch'i, No 6, 16 Mar 1962,
pp 15-20.

JPRS 13683

The Problem of Style in Classic Literary
Theory, by Liu Shou-sung, 13 pp.
CHINESE, per, Hung-ch'i, No 6, 16 Mar 1962,
pp 21-26..

JPRS 13683

Do Your Work Honestly and Thoroughly,
by Lin I-chou, 6 pp.
CHINESE, per, Hung-ch'i, No 7, 1 Apr 1962,
pp 16-19.

JPRS 13723

Indochinese Ethnography, 8 pp.
FRENCH, pamphlet, Ethnologie Indo-
chinoise, pp 1-8.

JPRS 13747

Ethnology of Indochina, by
Andre Leroi-Gourhan, Jean Poirier,
157 pp.
FRENCH, bk, Ethnologie de l'Union
Francaise, Vol II, 1953, First Part,
Chapter II, pp 514-678.

JPRS 13652

An Outstanding Book on the Historic
Materialism, Entitled "The Origin of
the Family, the System of Private
Ownership, and the State, by Chiem Te,
8 pp.

VIETNAMESE, per, Hoc Tap, Feb 1962.

JPRS 13777

WESTERN EUROPE

Economic

Dutch Dissident Communist Trade Union
Discussion of Its Relationship With the
World Federation of Trade Unions, 5 pp.
DUTCH, per, Werkend Nederland, No 1,
1962, pp 3, 4.

JPRS 13739

1962 Civil Aviation Budget, 7 pp.
FRENCH, per, Revue du Secretaire General
a l'Aviation Civile, Dec 1961.

ID 1495163

Global Quotas Valid for Imports From All
OECD Member Countries From January 1, 1962
to June 30, 1962, 25 pp.
GERMAN, Encl 1 to Desp 854, AmEmbassy,
Vienna, 28 Mar 1962; W-234 of 28 Feb 1962.

Dept of State

Long Term Trade Agreement Between the
Federal Government of Austria and the
Government of the Czechoslovak Socialist
Republic Governing the Period
January 1, 1962-December 31, 1966,
23 pp.
GERMAN, Encl 1 to Desp 889, AmEmbassy,
Vienna, 5 Apr 1962; CERP D-11,
Embdesp 255, 15 Sep 1961, Prague
Desp 470, 31 Jan 1962.

Dept of State

Austrian Locomotives, 1961 and 1962, 4 pp.
GERMAN, per, Eisenbahn, No 2, 1962,
pp 34-36.

ACSI I-1264
ID 2196114

The Training of the Personnel in Wire
Rod Mills in Relation to the Technical
Development of the Plant, by
K. Muller-Trimbusch.
GERMAN, per, Stahl und Eisen, Vol LXXVIII,
No 3, 6 Feb 1958, pp 167-172.

BISI 2676

Present State and Recent Development in
the Preparation of Lean Iron Ores, by
O. Bunghardt.
GERMAN, per, Stahl und Eisen, Vol LXXXI,
26 Oct 1961, pp 1457-1463.

BISI 2550

Western Europe
Economic (Contd)

On the Question of Future Supplies of Iron Ores for the German Iron and Steel Industry, by H. G. Sohl.

GERMAN, per, Stahl und Eisen, Vol LXXXI, 23 Nov 1961, pp 1553-1557.

BISI 2694

Matters of Procurement - NATO and Bundeswehr District.

GERMAN, per, Wehr und Wirtschaft, No 3, 1962, pp 115-117.

*ACSI I-1371
ID 2198522

Imaginary Conversation Between Ulbricht and Marx and Engels, by Wolfgang Leonhard, 8 pp.

GERMAN, np, Zeit, No 10, 9 Mar 1962, p 5.

JPRS 13584

Prospects of the Italian Steel Industry, by E. Manuelli.

ITALIAN, Paper Presented at the Conference Held at Naples, 27 Jun 1961, Under the Auspices of the Bank of Naples.

BISI 2672

Law, 9 Jan 1962, No 1 (1962 Series), Regulations for the Management of Marine Credit, 4 pp.

ITALIAN, per, Gazzetta Ufficiale della Repubblica, No 16, 19 Jan 1962.

Maritime Admin
Div of Office Services (Loan)

Law, 9 Jan 1962, No 2. Modifies Law No 622 of 24 Jul 1959, Providing Assistance for the National Economy With Respect to Modernizing the Merchant Fleet, 3 pp.

ITALIAN, per, Gazzetta Ufficiale della Repubblica, No 16, 19 Jan 1962.

Maritime Admin
Div of Office Services (Loan)

Western Europe
Political

The Intellectual French Left, by
Zvonimir Junkovic, 10 pp.
CROATIAN, per, Nase Teme, Vol V,
No 12 (36), Dec 1961, pp 1828-1839.

JPRS 13688

Discussion of International Trade
Union Congress. (DC-6803).
DUTCH, np, Werkend Nederland, No 1,
1962, pp 3, 4.

*JPRS

When the Belgian Communist Party
"Advises" the Chinese Comrades, by
Henri Pezerat, 4 pp.
FRENCH, per, Le Communiste, No 79,
Feb 1962, pp 10, 11.

JPRS 13632

On the Philosophic Front: The Danger
of the Garaudy-Vigier Positions, by
M. M., 5 pp.
FRENCH, per, Le Communiste, No 79,
Feb 1962, pp 13, 14.

JPRS 13632

Debate on the Creative Development
of Dialectical Materialism, by
Armand Costes, 5 pp.
FRENCH, per, Le Debat Communiste,
Vol I, No 2, 15 Apr 1962, p 6.

JPRS 13754

Record of Stalinism in France: The
Anti-Tito Campaign, 7 pp.
FRENCH, per, Le Debat Communiste,
Vol I, No 2, 15 Apr 1962, p 12.

JPRS 13754

Prospects of the Belgian Communist
Party, by Frans Von Den Branden, 12 pp.
FRENCH, np, Le Drapeau Rouge,
22, 23, 26 Mar 1962.

JPRS 13418

Belgian Communist Party Report on
International Meeting in Rome in
Support of Freedom for the Spanish
People, by Isabelle Blume, 7 pp.
FRENCH, np, Le Drapeau Rouge, No 78,
19 Apr 1962, pp 1, 3.

JPRS 13775

Western Europe
Political (Contd)

Belgian Communist Interpretation of
Chinese Theses -- as Gleaned by French
Independent Observer, by C. H., 5 pp.
FRENCH, per, Est & Quest, No 275,
16-31 Mar 1962, pp 10, 11.

JPRS 13775

Economic Clash -- First Sally in Sino-
Soviet Ideological Duel (A French Liberal
Comment), by Michel Bosquet, 6 pp.
FRENCH, per, l'Express, No 565, 12 Apr 1962,
p 20.

JPRS 13545

Disagreement, Not Break Between Moscow
and Peiping -- A French Conservative
Estimate, by Raymond Aron, 5 pp.
FRENCH, np, Le Figaro, Vol CXXXVI,
No 5473, 7-8 Apr 1962, pp 1, 24.

JPRS 13545

French PSU Socialist on Post-Stalin
Socialist Unity, by Jean Poperen, 11 pp.
FRENCH, np, Tribune Hebdomadaire du
Parti Socialiste Unifie, Nos 89, 92;
17 Feb, 10 Mar 1962, pp 8, 9.

JPRS 13738

Revisionist Communist Comment on Dis-
cussion in Belgian Communist Party, b 6 pp.
FRENCH, per, Unit Pour le Socialisme,
No 113, Apr 1962, p 8.

JPRS 13775

Thorez' Comments on Trotsky Over the
Past 40 Years -- As Gleaned by a Dissi-
dent Communist Observer, 3 pp.
FRENCH, per, La Voie Communiste, No 27,
Mar/Apr 1962, p 17.

JPRS 13545

Constitution and Risk Taking Readiness,
by Th. C. Kahn, 45 pp.
GERMAN, thesis, Konstitution und
Risikobereitschaft, 1960, 52 pp.
9676735

PTD-TT-62-94

Indication of a Political Dawn in the
South Tyrol?, by Friedrich Scheu, 3 pp.
GERMAN, np, Arbeiter-Zeitung, 22 Mar 1962;
Encl 1 to Desp 902, AmEmb, 9 Apr 1962.

Dept of State

Western Europe
Political (Contd)

The Man Between the Barbed-Wire
Entanglements -- West German Inde-
pendent Sketch of Georg Lukacs, by
Peter Demetz, 6 pp.
GERMAN, np, Die Zeit, No 14, 6 Apr 1962,
p 22.

JPRS 13545

The New Popular Front of the Sixties,
by Leone Iraci Fedeli, 28 pp.
ITALIAN, per, Corrispondenza Socialista,
No 3, 1962, pp 125-131.

JPRS 13602

Policy Twists of the Trieste Communists,
by Giorgio Cesare, 10 pp.
ITALIAN, per, Corrispondenza Socialista,
No 3, 1962, pp 155-157.

JPRS 13602

**Selected Articles From the Italian
Newspaper l'Unita.**

No 101, 12 Apr 1962, pp 1, 9.
Interview on the Italian TV, by
Palmiro Togliatti, 27 pp.

JPRS 13622

15 Apr 1962, p 2.
Report on Pajetta's Address to
the Rome Meeting and Statements
by Other Participants, 5 pp.

JPRS 13775

No 109, 20 Apr 1962, p 1.
The Present Task of the Italian
Communist Party, by Enrico Berlinguer,
5 pp.

JPRS 13622

No 116, 27 Apr 1962.
Longo Report on Next Party Congress
and Party Organization, by Luigi Longo,
30 pp, (pp 1, 8-10).

JPRS 13803

Debate on Party Activities and Longo
Report, Speeches by Gruppi, Zangheri,
4 pp, (p 10).

Western Europe
Political (Contd)

Italian Communists and Socialists
Discuss Capitalism, by Lucio Libertini,
11 pp.
ITALIAN, per, Mondo Nuovo, No 7,
8 Apr 1962, pp 13, 14.

JPRS 13602

Amendola Report to the Gramsci Institute
Conference on Italian Capitalism, by
Giovanni Amendola, 7 pp.
ITALIAN, per, Mondo Nuovo, No 8,
22 Apr 1962, pp 32, 33.

JPRS 13803

Speeches by Vittorio Foa, Luciano Barca,
5 pp.
ITALIAN, per, Mondo Nuovo, No 8,
22 Apr 1962, pp 33, 35, 36.

JPRS 13803

Italian Communist Youth Defines Communist
Idea of Struggle for Peace, by
Armando Sandretti, 4 pp.
ITALIAN, per, Nuova Generazione, No 16,
27 Apr 1962, p 7.

JPRS 13650

The Spanish Situation Assessed by the
Secretary of the Spanish Communist
Party, by Santiago Carrillo, 7 pp.
ITALIAN, per, Nuova Generazione, No 16,
27 Apr 1962, p 13.

JPRS 13650

Italian Delegate Reichlin Upholds Peaceful
Coexistence, 10 pp.
SPANISH, np, El Siglo, 16 Mar 1962, p 4.

JPRS 13649

Western Europe
Military

Conversation With General Fall Concerning the Senegalese Army, by H. P.
FRENCH, rpt, Tropiques Revue des Troupes de Marine, 1962, pp 3-9.

*ACSI I-1392
ID 2198532

Modernization of French Forces in Germany, 3 pp.
FRENCH, per, l'Armee, No 14, 1961, pp 11-14.

ACSI I-159
ID 219...18

The Federal Navy in 1961 - Achievements and Prospects, by Karl Adolf Zenker, 5 pp.
GERMAN, Encl to 64-62 to USNA, Bonn, 1 Mar 1962.

Dept of Navy
ONI 5141795

Difficulties in Fitting Concerning Clothing and Shoes of the Bundeswehr, by Reinhold Weber, Koblenz, 6 pp.
GERMAN, per, Wehr und Wirtschaft, No 1, 1962, pp 15-17.

ACSI I-1148
ID 2191549

How to Wear Decorations (Portugal), by Orlando Guerreiro de Castro, 4 pp.
PORTUGUESE, rpt, Como Usar as Condecoracoes, Encl to R-232-60.

ACSI I-0700
ID 2155471

Tactical Employment of Armament, by Fernando de Ralas Lopez, 298 pp.
SPANISH, bk, Empleo Tactico del Armamento, 1960, pp 1-27, 29-101, 181-429, 539-603, 618-625, Chapters I, II, VI, VII, VIII, XI, XII, Madrid, Spain.

ACSI H-8817
ID 2151678

Sociological

Foreign Alphabets, by Edmond Locard, (NY-7082).
FRENCH, bk, Les Faux en Ecriture et Leur Expertise, 1959, pp 197-212.

*JPRS

LATIN AMERICA

Economic

Republic of Venezuela, Report and Account of the Ministry of Communications Presented to the National Congress at the Regular Session of 1961, 19 pp.
SPANISH, rpt, Republica de Venezuela, Memoria y Cuenta del Ministerio de Comunicaciones Presentada al Congreso Nacional, en sus Sesiones Ordinarias de 1961, 1961.

ACSI I-0695
ID 2186162

Miscellaneous Provisions and Transitory Provisions of the Regulations to the Mining Law of February 6, 1961, 9 pp.
SPANISH, per, Diario Oficial, 28 Feb 1962; Encl 1 to Desp 1164, AmEmbassy, Mexico, D.F., 20 Mar 1962; CERP Sec. D, Item 15, Emb Desp No 1152, 16 Mar 1962.

Dept of State

Political

Two Articles on Janio Quadros, by David Nasser, (DC-6811)
PORTUGUESE, per, O Cruzeiro, 30 Sep 1961, 14 Oct 1961.

*JPRS

Brazilian Communist View of the Critical Role of the Marxist Intellectual, by J. Miglioli, 15 pp.
PORTUGUESE, np, Novos Rumos, 30 Mar-5 Apr 1962, p 5.

JPRS 13775

Trip to Latin America, by Aljosa Furlan, 27 pp.
SLOVENIAN, np, Delo, Vol IV, 1-28 Jan 1962.

JPRS 13712

Latin America
Political (Contd)

Multilateral Treaties Approved by
Ecuador in the Year 1961, or
Currently in the Process of Approval,
5 pp.
SPANISH, Encl 1 to Desp 439, AmEmbassy,
Quito, 7 Mar 1962.

Dept of State

Letter from President Lopez Mateos to
Premier Khrushchev on Disarmament, 5 pp.
SPANISH, Encl 1 to Desp 1131, AmEmbassy,
Mexico, D. F., 12 Mar 1962, Embassy's
A-255, 27 Feb 1962.

Dept of State

Argentine Jewish Institute Cultural
and Informational, 3 pp.
SPANISH, Encl 1 to Desp 1313,
AmEmbassy, Buenos Aires, 18 Apr 1962;
Embassy Airgram A-265, 13 Mar 1962.

Dept of State

Anti-Semitic Action During 1961, 4 pp.
SPANISH, Encl 2 to Desp 1313,
AmEmbassy, Buenos Aires, 18 Apr 1962;
Embassy Airgram A-265, 13 Mar 1962.

Dept of State

The Political Crisis, 7 pp.
SPANISH, np, Analisis, No 56,
26 Mar 1962; Encl 1 to Desp 1302,
AmEmbassy, Buenos Aires, 16 Apr 1962.

Dept of State

Cuban-Czechoslovak Scientific and
Cultural Collaboration Plan for 1961,
(DC-6813).
SPANISH, np, Gaceta Oficial, Vol VI,
No 63, 30 Mar 1962, pp 3865-3868.

*JPKS

Selected Articles From the Spanish
Newspaper El Siglo.

JPRS 13649

14 Mar 1962.
Communist Activity in the Chilean
Trade-Union Movement, by Oscar
Astudillo, 7 pp, (pp 1, 16.)

Latin America
Political (Contd)

Selected Articles From the Spanish
Newspaper El Siglo. (Contd)

JPRS 13649

14 Mar 1962.
Chilean Communist Party Opens
12th Congress, 5 pp, (pp 1, 16.)

Secretary-General Corvalan
Delivers Central Committee's
Report, by Luis Corvalan, 82 pp,
(pp 4-12.)

Soviet Delegate Calls the
Victory of Socialism Inevitable,
4 pp, (p 16.)

Gonzalez Delivers Inaugural
Speech, by Jose Gonzalez, 4 pp,
(p 16.)

Report on the 13 March Sessions,
3 pp, (p 16.)

16 Mar 1962.
Schmidt Sees Popular Action Front
Victory, 4 pp, (pp 1, 12.)

Atlas Wants Chile Represented at
Moscow Peace Congress, 11 pp,
(p 7.)

Millas Calls for Anti-Imperialist
Government, 14 pp, (pp 5, 9.)

Latin America
Sociological

Program for Training Labor Union
Instructors (Puerto Rico), (DC-6808).
SPANISH, pamphlets, Feb 1962, 29 pp.

*JPRS

Television Interview With Fidel
Castro, 24 April 1962, (DC-6797).
SPANISH, np, Revolucion, 26 Apr 1962,
pp 9, 10.

*JPRS

Biographic

Janio Quadros: The Phenomenon, by
Jose Viriato de Castro, (DC-6805).
PORTUGUESE, bk, O Fenomeno: Janio
Quadros, 2nd Ed Chap 4, 22, 24, 27,
30, pp 33-39, 158-167, 177-182,
197-200, 222-228.

*JPRS

WORLD WIDE

Political

Restatement of Problems of Peace -- A
Dissident Communist View, by Rene Batelier,
9 pp.

FRENCH, per, La Voie Communiste, No 27,
Mar-Apr 1962, p 5.

JPRS 13545

The Disarmament Debate -- A Dissident Communist
View, by F. D., 4 pp.

FRENCH, per, La Voie Communiste, No 27,
Mar-Apr 1962, pp 17.

JPRS 13545

World Peace Movement -- What It Is and What
It Is Not, by Ilya Ehrenburg, 6 pp.

GERMAN, np, Volksstimme, No 83, 10 Apr
1962, pp 6, 7.

JPRS 13545

International Review.

HUNGARIAN, per, Nemzetkozi Szemle, 21 pp.

*525th MI Bn

I-1437

ID 2198538

World Communist Parties Send Greetings,
5 pp.

SPANISH, np, El Siglo, 14 Mar 1962, p 4.

JPRS 13649

SCIENTIFIC

Aeronautics

The Stabilizer of Aircraft and
Autopilots, by V. A. Bodner,
M. S. Kozlov.
RUSSIAN, bk, Stabilizatsiya Letatel'nykh
Apparatov i Avtopiloty, Moscow, 1961,
508 pp.

*FTD-TT-62-811

An Investigation of the Distribution of
Stresses in Monolithic Wings, by
M. B. Vakhitov, 7 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved,
Aviats Tekh, No 4, 1961, pp 128-131.
9676774

FTD-TT-62-379/1

On the Question of the Elimination
of Vibrations in Aircraft, Engines,
by M. E. Levit, Yu. A. Kolosov.
RUSSIAN, per, Trudy Mosk Aviats
Inst, No 140, 1961, pp 130-147.

*FTD-TT-62-738

Destruction of the Leading Edge
of a Delta Wing in a Hypersonic
Flow, by G. A. Tirskiy, 20 pp.
RUSSIAN, per, Zhur Prik Mekh i Tekh
Fiz, No 6, 1961, pp 54-68. 9676722

FTD-TT-62-338

Test of Mobile Noise Suppressors for
Jet Engines on Field Test Stands and
Acoustic Measurements, by Schlawin,
Kirch.
GERMAN, rpt, No 5517/61, Erprobungstelle
der Bundeswehr, Oberpfaffenhofen,
Erprobung von Mobilen Schalldampfern
fuer Strahltriebwerke auf Feldpruf-
standen und Schalldruckmessungen,
22 Sep 1961, 13 pp.

*FTD-TT-62-559

Technical Novelties at Tushino --
Through a Magnifying Glass, by
H. Szucs.
HUNGARIAN, per, Repules, No 10, 1961,
pp 14-15.

*FTD-TT-62-782

Scientific
Aeronautics (Contd)

Study of Aeronautical Engineering,
Poland.

POLISH, per, Skrzydlata Polska,
4 Mar 1962.

AF 1499553

Design Problems in Aircraft Con-
struction, by E. Staniewski.

POLISH, per, Wojskowy Przeglad
Lotniczy, Aug 1961, pp 15-20.

*FTD-TT-62-405

Scientific
Astronomy

The 4.5 CM Solar Energy Observed on the Day of the Annular Eclipse of the Sun on April 4, 1958, by Morchanov, Petelova, 6 pp.

RUSSIAN, per, Acta Astronomica Sinica, Vol VII, No 1, 1959, 3 pp. 9676522

FTD MCL-1384/1

Averaged Variants of a Semirestricted Planar Problem of Three Bodies, by N. D. Moiseyev, 13 pp.

RUSSIAN, per, Contributions of the State Astronomical Institute of P. K. Sternberg, Vol XXI, 1952, pp 3-18.

ARS Journal
Vol XXXI, No 3
Mar 1961

Interpolation Averaged Variants of the Canonical Problem of Celestial Mechanics, by N. D. Moiseyev, 6 pp.

RUSSIAN, per, Contributions of the State Astronomical Institute of P. K. Sternberg, Vol XXIV, 1954, pp 3-9.

ARS Journal
Vol XXXI, No 3
Mar 1961

Complete Averaging of Canonical Problem of Celestial Mechanics With Several Intermediate Elements, by N. D. Moiseyev, 6 pp.

RUSSIAN, per, Contributions of the State Astronomical Institute of P. K. Sternberg, Vol XXIV, 1954, pp 10-16.

ARS Journal
Vol XXXI, No 3
Mar 1961

Concerning One Group of Questionable Variables of the T. Tel'tsa Type, by G. S. Badalyan.

RUSSIAN, per, Dok Ak Nauk Armyanskoy SSR, Vol XXXI, No 5, 1960, pp 261-265.

*AFCRL Res Lib

The Riddle of the "Morning Star", by N. A. Kozyrev, 3 pp.

RUSSIAN, per, Nauka i Zhizn, No 5, 1961, pp 27, 28. 9676345

FTD-TT-62-162

Scientific
Astronomy (Contd)

On the Problem of Processing Radar
Observation of Meteor Echoes, by
V. P. Tsesevich.

RUSSIAN, per, Trudy Odesskogo Univ,
No 149.

*FTD-TT-62-595

Radioastronomy -- Problems and Prospects
of Development in Poland, by Wilhelmina
Iwanowska, 11 pp.

POLISH, per, Nauka Polska, Vol IX, No 2,
Apr-Jun 1961, pp 17-26.

JPRS 13653

**Scientific
Biology**

Treating and Drying Trees on the Stump,
by P. S. Zakharov.
RUSSIAN, bk.

CB

Distribution of Tree Belts in Severely
Dissected Terrain, by D. L. Armand,
7 pp.

RUSSIAN, bk, Fiziko-Geograficheskiye
Osnovy Proyektisoyaniya Zeti Pole-
zashchitnykh Lesnykh Polos, 1961,
pp 305-309.

JPRS 13525

Information on Photosynthesis, by
Ye. M. Senchenkova, 33 pp.
RUSSIAN, bk, K. A. Timiryazev i
Ucheniye o Fotosinteze, 1961, 181 pp.

JPRS 13566

Carnivorous Mammals of the Fauna of
the USSR, by G. A. Novikov, 284 pp.
RUSSIAN, bk, Khishchnye Mlekopitayushchie
Fauny SSSR, No 62, 1956.

OTS 61-11403
PL-480

General Epizootology, by M. S. Gannushkin,
273 pp.
RUSSIAN, bk, Obshchaya Epizootologiya,
1961, pp 1-264.

JPRS 13780

The Soil Forming Process and Soil
Evolution, by A. A. Rode, 100 pp.
RUSSIAN, bk, Pochvoobrazovatel'nyi
Protsess i Evolyutsiya Pochv, 1947.

OTS 60-21835
PL-480

Selected Articles From the Russian Book
Trudy Byuro Kol'tsevaniya, No 9, 1957.

OTS 62-11001
PL-480

Summary Table of the Banding of Birds
(For the Years 1925-1954), by T. P.
Shevareva, 42 pp, (pp 5-45).

Results of the Banding of the Pidgeon
(Anas Penelope L.) in the USSR, by
E. N. Teplova, 20 pp, (pp 144-161).

Scientific
Biology (Contd)

Selected Articles From the Russian
Book Trudy Byuro Kol'tsevaniya, No 9,
1957. (Contd)

OTS 62-11001
PL-480

Seasonal Distribution and Migration
of the Gadwall (Anas strepera L.)
According to Data Obtained by
Banding. by V. D. Treus, 24 pp,
(pp 162-186).

Seasonal Distribution and Migrations
of the Shoveler (Anas clypeata
L.) According to Banding Data,
by V. D. Treus, 20 pp, (pp 187-207).

Problems of Evolutionary Morphology of
the Cell in the Light of Data From
Electron Microscopy, by A. N.
Studitskiy, (SF-2236).
RUSSIAN, per, Arkhiv Anatomii, Gistol
i Embriol, Vol XLII, No 3, 1962,
pp 3-29.

*JPRS

The Visiting Scientific Session of the
Division of Biological Sciences of
the Academy of Sciences of USSR in
Leningrad, 7 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser
Biol, No 2, Mar/Apr 1961, pp 330-333.

JPRS 13669

The 22nd Congress of the CPSU and the
Tasks of the Biological Sciences, 12 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser
Biol, Vol XXVII, No 1, Jan-Feb 1962,
pp 3-12.

JPRS 13567

The Third Conference on the Use of
Mathematical Methods in Biology,
by A. Ye. Vitgeft, 8 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser
Biol, Vol XXVII, No 1, 1962, pp 151-152.

JPRS 13548

Scientific
Biology (Contd)

A Study of the Minerals of Podzolic Soils With Regard to Their Formation Process, by E. I. Parfenova, 19 pp.
RUSSIAN, per, Kora Vyvetrivaniya, Vol II, 1956, pp 31-44. 9099503

OTS 60-21836
PL-480

A Mineralogical Study of the Sub-Alpine Chernozem Developed on Andesite Basalt, by E. A. Yarilova, 21 pp.
RUSSIAN, per, Kora Vyvetrivaniya, Vol II, 1956, pp 45-60. 9099504

OTS 60-21837
PL-480

Dry Medium for Diagnosis of Alimentary Intoxications Due to Clostridium Botulinum and Clestridium Perfringens, by L. G. Ivanova, T. I. Sergeyeva, et al, (NY-7117).
RUSSIAN, per, La Delo, No 4, 1962, pp 33-36.

*JPR

The Norwegian Lemming, (Its Ecology and Role in the Nature Complex of the Lapland Reserve), by A. Nasimovich.
RUSSIAN, per, Materialy po Gryzunam, No 3, 1948, pp 203-262.

NLL/RTS 1811

Role of the Root Mass in the Desalinization of Soil, by E. P. Lagunova.
RUSSIAN, per, Pochvovedenie, No 1, 1952, pp 28-40.

CSIRO

On Automatization of Determinating of the Soil and Ground Moisture, by B. M. Gumenskiy.
RUSSIAN, per, Pochvovedenie, No 4, 1955, pp 85-89.

CSIRO

Practical Laboratory Methods on the Determination of the Degree of Soil Salinity, by I. N. Antipov, L. Ya. Mamayeva.
RUSSIAN, per, Pochvovedenie, No 8, 1955, pp 61-65.

CSIRO

Scientific
Biology (Contd)

Soviet Study on the Eyesight of
Squids, by O. Yu. Orlov, A. L. Bygov,
10 pp.
RUSSIAN, per, Priroda, Vol LI, No 3,
1962, pp 115-118.

JPRS 13756

Sterility Mutations in Drosophila
Melanogaster, I. Distribution of
Sterility Mutations in the Chromosomes
of Drosophila Melanogaster, by
R. L. Berg, 23 pp.
RUSSIAN, per, Trudy Leningrad Obshch
Estestvoispytatelei, Vol LXVII,
No 4, 1938, pp 96-108. 9093459

AEC Tr-5051

The Biology of the Pear Tortricid
(Carpocapsa Pyrivoar Danil), by
G. G. Shel'deshova.
RUSSIAN, per, Uchenye Zapiski Lenin-
grad Univ, No 240, 46, 1958, pp 88-121.

NLL/RTS 1886

Investigations of the Genus Botrydium
Wallr. in Bulgaria, by D. G. Vodenicharov.
RUSSIAN, per, Ukrain Botan Zhur, Vol XVII,
No 4, 1960, pp 61-66.

NLL/RTS 1951

Certain Problems of Space Biology, by
O. G. Gazeiko, 9 pp.
RUSSIAN, per, Vest Ak Nauk SSSR, No 1,
1962, pp 30-34. 9676541

FTD-TT-62-412

Mathematical Analysis of the Population
Dynamics of Fish, by V. S. Ivlev, 10 pp.
RUSSIAN, per, Vest Leningrad Univ,
Vol II, No 9, 1959, pp 119-127. 9099512

OTS 60-51145
PL-480

The Cytology of the Life Cycle of the
Coccidium of a Rabbit, by E. M. Kheisin.
RUSSIAN, per, Voprosy Tsitol i
Protozoolog, 1960, pp 258-276.

NLL/RTS 1979

Scientific
Biology (Contd)

A Cytological Investigation of the Various Stages in the Life Cycle of the Rabbit Coccidium, by T. V. Beier.
RUSSIAN, per, Voprosy Tsitol i Protozoolog, 1960, pp 277-284.

NLL/RTS 1980

Effect of a Space Radiation Environment on Plant Activity, by A. A. Shakhov.
RUSSIAN, per, Zhur Obshch Biol, Vol XXIII, No 2, 1962, pp 81-89.

*FTD-TT-62-771

Factors of Population Dynamics of the Commercial Fauna in the Northwest Pacific Ocean, by P. A. Moyscev,
10 pp.
RUSSIAN, per, Zool Zhur, Vol XXXV, No 11, 1956, pp 1601-1607. 9099513

OTS 60-51152
PL-480

Second All-Union Conference Concerning the Zoogeography of the Land, by F. I. Strautman, 5 pp.
RUSSIAN, per, Zool Zhur, Vol XL, No 6, 1961, pp 953-955.

JPRS 13669

On the Problem of the Radiation Sensitivity of Dry Seed, by A. Micke, K. Wohrmann, 17 pp.
GERMAN, per, Atompraxis, No 8, 1960, pp 308-316. 9099901

AEC Tr-5052

The Effect of X-Irradiation on Potatoes (*Solanum Tuberosum L.*) and Jerusalem Artichokes (*Helianthus Tuberosus L.*), by Chr. Patzold, W. Kolb, 28 pp.
GERMAN, per, Beitrage zur Biologie der Pflanzen, Vol XXXIII, No 3, 1957, pp 437-458. 9099878

AEC NP Tr-860

Fundamental Research in Plant Physiology, by K. Paech, 13 pp.
GERMAN, per, Landwirtsch Jahrb, Vol LXCV, 1937-1938, pp 653-660.

AEC NP Tr-851

Scientific
Biology (Contd)

Studies on the Mineral Metabolism
of Antlered Animals by Means of
Radioactive Istopes, by J. Rerabek,
A. Bubenik.
GERMAN, per, Z Jagdwissenschaft, Vol II,
1956, pp 119-123.

AEC Tr-4942

Browning of Apple Fruit. Part I.
Isolation and Estimation of Chlorogenic
Acid and L-epi-Catechin in Apple Fruit,
by T. Nakabayashi.
JAPANESE, per, Bulletin Agricultural
Chemical Society of Japan, Vol XXVII,
1953, pp 813-818.

CSIRO

Self-Pollination in Red Clover, by
E. Kozicka-Nowakowa, 16 pp.
POLISH, per, Hodowla Roslin
Aklimatyzacja i Nasiennictwo, Vol II,
No 1, 1958, pp 1-15.

OTS 60-21417
PL-480

Observations and Considerations on
the Dutch Elm Disease Caused by
Graphium Ulmi Schwarz, by Tadeusz
Dominik, 5 pp.
POLISH, per, Roczniki Nauk Rolniczych i
Lesnych, Vol XXXVIII, 1937, pp 134-140.

OTS 60-21485
PL-480

Forest Site Classification, by
L. Mroczkiewicz, 25 pp.
POLISH, per, Sylwan, Vol CIII, No 5,
1959, pp 7-36.

OTS 60-21395
PL-480

Scientific
Chemistry

- Scandium, by L. F. Borisenko.
RUSSIAN, bk, 1961. *CB
- Growth of Crystals.
RUSSIAN, Vol III, 1961. *CB
- Chemical Changes in Black Sea Sediment
Waters, by O. V. Shishkina, 32 pp.
RUSSIAN, bk, The Criteria of Diagenesis
(Symposium Volume), 1959. MEB
- Transition Metal Hydride, by
V. I. Mikheyeva.
RUSSIAN, bk, Gidridy Perekhodnykh
Metallov. *AEC
- The Complex Compounds of Transuranium
Element, by A. D. Gel'man, A. I. Moskvin,
208 pp.
RUSSIAN, bk, Kompleksnyye Soyedineniya
Transuranovykh Elementov, 1961, 223 pp.
9676550-V FTD-TT-61-246
- Crystallogchemistry of Silicates With
Large Cations, by N. V. Belov.
RUSSIAN, bk, Kristallokhimiya Silikstov
s Krupiyimi Kationami, 1961. *CB
- Lithium, Its Chemistry and Technology,
by Yu. I. Ostroushko, P. I. Buch'kin.
RUSSIAN, bk, Liti, Yego Khimiya i
Tekhnologiya, 1960. AEC Tr-4940
- Organic Chemical Crystallography, by
A. I. Kitsigorodskiy.
RUSSIAN, bk, Organicheskaya Kristallogimiya. CB
- The Effect of the Chemical Composition and
of Additives on the Fuel Combustion in Jet
Engines, by Ya. M. Paushkin, et al.
RUSSIAN, bk, Sbornik Trudov; Mezhvuzovskiye
Soveshchaniya po Khimii Nefti, 1956, Moscow,
1960, pp 293-314. *FTD-TT-62-743

Scientific
Chemistry (Contd)

On Chemical Reaction Rates in Turbulent Flows, by A. S. Predvoditelev.
RUSSIAN, bk, V Sbornike, Tret'ye Vsesoyuznoye Soveshchaniye po Teorii Goreniya, Moscow, 1960, Vol I, pp 138-159.

*FTD-TT-62-745

Photocolorimetric Method of Analysing Phosphacol and Armine, by A. F. Fursov, (NY-7096).
RUSSIAN, per, Aptchnoye Delo, Vol XI, No 1, 1962, pp 46-49.

*JPRS

Selected Articles From the Russian Periodical Dok Ak Nauk SSSR.

Vol LXII, No 4, 1948, pp 485-488.
The Volume of the Uranyl Ion in Solution, by A. F. Kapustinskiy, I. I. Lipilina.

NLL M.4530

Vol CVII, No 3, 1954, pp 495-498.
On the Adhesion of Sulphide Minerals to Air Bubbles in the Absence of Reagents, by I. N. Plaksin, S. V. Bessonov.

NLL RTS 1934

Vol CXXXVI, 1961, pp 599-602.
Kinetics and Mechanism of the Reaction of Aluminium Alkyls With Titanium Halides, by A. F. Zefirova, A. E. Shilov.

NLL M.3447

Vol CXLI, No 3, 1961, pp 659-661.
9676336
Effect of Oxygen Atoms on Combustion at Low Pressures, by V. Ya. Basevich, S. M. Kogarko, 6 pp.

FTD-TT-62-219

Scientific
Chemistry (Contd)

Selected Articles From the Russian
Periodical Farmakol i Toksikol,
Vol XXIV, 1961.

JPRS 13504

No 1, pp 3-13.
The Central Effect of Gangliolytic
Derivatives of Quaternary Ammonium
Bases, by M. L. Tarakhovskiy, 13 pp.

No 3, pp 304-309.
On the Relation Between the Structure
and Effect of Cholinoreactive Systems
of Certain Derivatives of 2,6-Dimethyl-
Piperidine, by Yu. I. Syrneva, 6 pp.

No 5.
Pharmacological Study of the N-Oxides
of Nicotine, by G. S. Arutyunyan,
M. D. Mashkovskiy, 15 pp, (pp 534-540).

The Deuretic Action of Dihydro-
chloretiazone Derivatives, by
B. Issekutz, 12 pp, (pp 557-561).

Catalytic Effect on Gasification in
a Fluidised Bed, by V. I. Kislykh,
N. V. Shishakov.
RUSSIAN, per, Gaz Prom, Vol V, No 8,
1960, pp 15-19.

NLL M.3482

Hydrolysis of Cellulose With Small
Quantities of Concentrated Sulphuric
Acid, by P. N. Odintsov, I. I. Beinart,
9 pp.
RUSSIAN, per, Gidroliz i Lesokhim Prom,
Vol XIII, No 6, 1960, pp 6, 7.

AEC NP Tr-854

A Combined Method of Hydrolysis of
Maize Stalks With Concentrated Sulphuric
Acid, by E. E. Shnaider, M. E. Shpuntova,
18 pp.
RUSSIAN, per, Gidroliz i Lesokhim Prom,
Vol XIII, No 7, 1960, pp 1-4.

AEC NP Tr-855

Scientific
Chemistry (Contd)

Filtration Method for Purifying a
Microbial Aerosol, by Ye. Yu. Zuykova.
RUSSIAN, per, Gig i San, No 6, 1959,
pp 72, 73.

*ACSI I-1367
ID 2198518

Hygienic Evaluation of Construction
Materials and Deactivating Agents
Used for Ridding Them of Contamination
With Radioactive Iron, by M. I. Gneushev,
R. S. Kalinova, 5 pp.
RUSSIAN, per, Gig i San, Vol XXVII, No 2,
1962, pp 34-37.

JPRS 13691

Synthesis, Polymerization and Copolymeriza-
tion of 1, 1-Dichloro-2-Fluorethylene,
1-Chloro-2-Fluoro-Ethylene, 1, 1-Dibromo-
2-Fluorethylene and 1-Bromo-2-Fluorethylene,
by G. S. Kolesnikov, M. G. Avetyan.
RUSSIAN, per, Iz Ak Nauk Armyanskoy SSR,
Vol XI, No 3, 1958, pp 201-209.

NLL M.3430

The Effect of Oxygen on the Interaction
of Sulphide Minerals With Xanthogenate
in the Presence of Sodium Sulphide, by
D. Nai'lyan, et al.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekn
Nauk, No 12, 1957, pp 80-82.

NLL/RTS 1930

Separation of Boric Acid From Mixtures
Containing Magnesium Sulphate by the
Ion Displacement Method, by A. N. Popov,
Yu. S. Kononov.
RUSSIAN, per, Iz Siber Otdel Ak Nauk
SSSR, No 3, 1961, pp 61-67.

NLL/RTS 1997

Effect of Mould Friction on Hot Tearing
of Castings, by Yu. A. Stepanov.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved,
Mashin, No 4, 1960, pp 86-94.

HB 5339

Scientific
Chemistry (Contd)

The Possibility of Using Potassium Chlorate, Irradiated With γ Radiation of Co⁶⁰, as a Bleaching Agent, by A. S. Baberkin, et al.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Tekh Tekstil Prom, No 1 (20), 1961, pp 103-105.

NLL M.3437

Conference on the Subject of the Toxicology of Compounds With High Molecular Weight and Chemical Raw Materials Used for Their Synthesis, by B. Yu. Kalinin, 7 pp.
RUSSIAN, per, Khim Obshch imeni D. I. Mendeleyeva, Vol VI, No 5, 1961, pp 577-580.

JPRS 13670

Effect of Macrokinetic Factors on the Rate of Oxidation of Naphthalene in a Fluidized Catalyst Bed, by I. I. Ioffe, et al.
RUSSIAN, per, Khim Prom, No 4, 1961, pp 258-263.

NLL M.4606

Thermal Properties of Coals Undergoing Pyrolysis, by V. K. Zamoluyev.
RUSSIAN, per, Khim i Tekh Topliva i Masel, No 7, 1959, pp 20-23.

NLL M.3449

Modification of the Properties of Polypropylene Fibre by Grafting, by L. Odor, F. Helein.
RUSSIAN, per, Khim Volokna, No 2, 1961, pp 18-22.

NLL M.3475

The Second All-Union Conference Concerning Isotopes in Catalysis, by S. Z. Roginskiy, 6 pp.
RUSSIAN, per, Kinetika i Kataliz, Vol II, No 5, Sep/Oct 1961, pp 643-647.

JPRS 13785

Scientific
Chemistry (Contd)

A New Method of Evaluating the Physico-Mechanical Properties of Coke, by
N. S. Gryaznov, T. G. Zyryanova.
RUSSIAN, per, Koks i Khim, Vol IX,
No 10/11, 1939, pp 9-13.

NLL M.4280

Determination of the Temperature Distribution in the Dinas Partition-Wall of a Coke-Oven, by M. D. Tamarin.
RUSSIAN, per, Koks i Khim, Vol X, 1940,
pp 29-33.

NLL M.3420

Surface Strengthening of Titanium by Impregnation, by A. V. Smirnov,
A. D. Nachinkov.
RUSSIAN, per, Metallov i Term Obrab Metallov, No 3, 1960, pp 22-29.

HB 5327

Selected Abstracts From Soviet Abstracts Journal, Chemistry, 62 pp.
RUSSIAN, per, Referativnyy Zhurnal, Khimiya, No 8/11, 1961.

JPRS 13794

The Metallurgy of Acid-Resisting Iron-Silicon Alloys, by V. E. Vasilev,
K. I. Vashenko.
RUSSIAN, per, Teoria i Praktika Metalurgii, No 4, 1938, pp 20-32.

NLL M.4276

The Condensation of Vapors in the Presence of Non-Condensable Gases, by F. V. Mazyukevich.
RUSSIAN, per, Trudy Leningrad Tekh Inst Kholod Prom, Vol XI, 1956,
pp 109-114.

NLL M.4294

The Reduction and Sulphidation of Oxidised Cobalt Compounds, by V. D. Mishin, L. M. Kabanova.
RUSSIAN, per, Trudy Ural'skogo Politekh Inst imeni S. M. Kirova, Vol LVIII,
1957, pp 128-144.

NLL RTS 1896

Scientific
Chemistry (Contd)

Study of the Mechanism of the Polymerization Process by the Method of Analyzing Molecular-Weight Distributions, by S. Ya. Frenkel'.
RUSSIAN, per, Uspekhi Khim i Tekh Polimerov, Sbornik, No 3, 1960, pp 160-183.

AEC UCRL Tr-758(L)

Catalytic Decomposition of Liquid Ozone at Low Temperatures, by G. I. Yemel'yanova, V. P. Lebedev, 5 pp.
RUSSIAN, per, Vest Mosk Univ, Ser II Khim, No 6, 1961, pp 31-34. 9676339

FTD-TT-62-214

Conference on the Use of Flocculants With High Molecular Weight for Purifying Drinking Water, 4 pp.
RUSSIAN, per, Vodosnabzheniye i San Tekh, No 10, 1961, p 40.

JPRS 13670

Selected Articles From the Russian Periodical *Vysokomolekulyarnye Soyed.*

Vol II, No 11, 1960.
The Mechanism of the Transition From Forced Elastic to Highly Elastic Rupture, by V. E. Gul', I. M. Chernin, (pp 1613-1615).

NLL/RTS 1960

Investigation of the Strength Characteristics of Polymers at High Deformation Rates, by V. E. Gul', (pp 1616-1619).

NLL/RTS 1961

Vol III, No 4, 1961. 9676329
The Copolymerization of bis-(Alkylamino) Alkyl- or Arylboron With Organic Diisocyanates, by V. V. Korshak, N. I. Bekasova, 8 pp, (pp 521-524).

FTD-TT-62-25

The Copolymerization of B-Substituted Borazoles With Hexamethylene Diisocyanate, by V. V. Korshak, V. A. Zamyatina, 7 pp, (pp 525-529).

Scientific
Chemistry (Contd)

Determination of Free Oxide of Calcium
by the Phenol Method, by D. A. Nirenshtein.
RUSSIAN, per, Zavod Lab, Vol VIII, 1939,
pp 1066-1069.

CSIRO

The Determination of Gases in Samples of
Molten Steel in the Course of a Heat, by
the Hot Extraction Method, by P. S. Lebedev.
RUSSIAN, per, Zavod Lab, No 4, 1940,
pp 436-444.

NLL M.4277

Selected Articles From the Russian
Periodical Zhur Fiz Khim.

Vol XXXV, No 9, pp 2170-2172.
Ukrainian Republican Conference
on Adsorption and Methods of
Chromatographic Analysis, by
K. V. Chmutov, 6 pp.

JPRS 13670

Vol XXIV, 1950.
The Rate of Fall of Mercury Drops
in a Viscous Medium, by
F. A. Bagotskaya, (pp 3-9).

NLL M.4288

The Adsorption of Gases in the
Presence of Surface-Active Materials.
I. The Effect of Surface-Active
Materials on the Rate of Adsorption
of Sulphur Dioxide in Water, by
A. N. Ternovskaya, A. P. Belopol'skiy,
(pp 43-57).

NLL M.4297

Gas Absorption in the Presence of
Surface Active Materials. II. On
the Role of Adsorbed Film of Surface-
Active Materials in the Absorption
Process, by A. N. Ternovskaya,
A. P. Belopol'skiy, (pp 981-987).

NLL M.4287

Scientific
Chemistry (Contd)

Selected Articles From the Russian
Periodical *Zhur Fiz Khim.* (Contd)

Vol XXVI, No 12, 1952, pp 1798-1803.
The Crystal Structure of Rhodanides,
Complex Tetarhodanides of Zinc,
Cadmium Mercury and Platinum, by
Z. V. Zvonkova.

NLL M.4527

Vol XXX, No 6, 1956, pp 1223-1227.
Peroxide Products in the Catalysis
of H_2O_2 by Barium and Molybdenum
Salts II, by G. A. Bogdanov,
T. I. Berkenheim.

CSIRO

On the Liquid Coefficient of Absorption,
by V. V. Vyasovov.
RUSSIAN, per, Zhur Khim Prom, Vol XVII,
No 12, 1940, pp 14-16.

NLL M.4293

Selected Articles From the Russian
Periodical *Zhur Neorgan Khim.*

Vol VI, No 6, pp 1490, 1491.
Fourth All-Union Conference on
the Physico-Chemical Analysis
Dedicated to the Centennial of
the Birth of N. S. Kunakov, by
I. N. Lepeshkov, 5 pp.

JPRS 13150

Vol VI, No 10, 1961. 9676327
The Preparation of Pure Samples
of Sodium Peroxide and Potassium
Superoxide, by A. Kh. Mel'nikov,
T. P. Firsova, 8 pp, (pp 2225-2229).

FTD-TT-62-87

The Reaction of Sodium Superoxide
With Carbon Dioxide in the Presence
of Water Vapor, by A. Kh. Mel'nikov,
T. N. Firsova, 13 pp, (pp 2230-2236).

Scientific
Chemistry (Contd)

Selected Articles From the Russian
Periodical Zhur Neorgan Khim. (Contd)

Vol VI, No 11, 1961. 9676326
The Reaction of Sodium Peroxide
Octahydrate With Carbon Dioxide,
by A. Kh. Mel'nikov, T. N. Firsova,
6 pp, (pp 2470-2473).

FTD-TT-62-88

The Reaction of Carbon Monoxide
With Sodium and Potassium Super-
oxides, by A. B. Tsentsiper,
S. A. Tokareva, 14 pp, (pp 2474-2480).

Selected Articles From the Russian
Periodical Zhur Obshch Khim.

Vol XXXI, No 7, 1961.
Study of Pyrlyium Compounds That
Have Active Methyl Groups, by
N. V. Khromov-Borisov, L. A. Gavrilova,
13 pp, (pp 2192-2198).

JPRS 13630

Substances With Complex-Forming
Properties, by V. G. Yashunskiy,
O. I. Samoilova, et al, 12 pp,
(pp 2316-2321).

Vol XXXI, No 8, 1961.
Heterocyclic Compounds, by
A. Sh. Sharifkanov, T. G. Sarbayev,
6 pp, (pp 2851-2853).

JPRS 13630

Synthetic Studies in the Field of
Vitamins of Group B6, by
M. V. Balyakina, Ye. S. Zhdanovich,
et al, 4 pp, (pp 2983, 2984).

Vol XXXI, No 10, 1961.
Bicyclic Systems Based on
2,6-Lutidine, by Ye. S. Nikitskaya,
V. S. Usovskaya, et al, 6 pp,
(pp 3202-3205).

JPRS 13630

**Scientific
Chemistry (Contd)**

**Selected Articles From the Russian
Periodical Zhur Obshch Khim. (Contd)**

Vol XXXI, No 10, 1961. JPRS 13630

Synthesis of Quinuclidine-2,3-Dicarboxylic Acid, by Ye. Ye. Mikhлина, M. V. Rubtsov, et al, 7 pp, (pp 3251-3255).

Derivatives of 7-Azaindole, by L. N. Yakhontov, M. V. Rubtsov, 10 pp, (pp 3281-3287).

Some Unsymmetrical Derivatives of Alkylphosphinic Acids, by Ye. L. Gefter, 5 pp, (pp 3316-3319).

Derivatives of 1-Azabicyclico-(3,2,1)-Octane, Analogous to Quinine Alkaloids, by A. K. Chizhov, 12 pp, (pp 3469-3477).

Vol XXXI, No 11, 1961. JPRS 13630

Synthesis of Geometric Isomers of 1,2,5-Trimethyl-4-Hydroxy-4-Piperidylmethylaryl and 1,2,5-Trimethyl-4-Hydroxy-4-Piperidyldiaryl Carbinols, by V. Unkovskiy, I. A. Mokhir, 9 pp, (pp 3571-3577).

Synthesis of Geometric Isomers of 1,2,5-Trimethyl-4-Aryl-4-Piperidyl Methyl and 1,2,5-Trimethyl-4-Aryl-4-Piperidyl Aryl Ketones, by B. V. Unkovskiy, I. A. Mokhir, 11 pp, (pp 3577-3585).

From the Field of Organic Insecto-fungicides, by N. N. Mel'nikov, S. A. Khaskin, 7 pp, (pp 3605-3610).

Organoboron Compounds, by B. M. Mikhaylov, V. A. Dorokhov, 9 pp, (pp 3750-3756).

Scientific
Chemistry (Contd)

Investigation in the Field of Recover
Volatile Solvent Vapours. IV. Investi-
gation of the Sorption and Desorption of
Chlorinated Organic Solvents on Activated
Carbon, by E. V. Alekseyevskiy, Ya. D. Musin.
RUSSIAN, per, Zhur Prik Khim, Vol XII,
1939, pp 704-718.

NLL M. 3439

5th Plenary Meeting of the Central
Executive Board of the All-Union
Chemical Society Imeni D. I. Mendeleyev,
14 pp.
RUSSIAN, per, Zhur Vses Khim Obshch
Imeni D. I. Mendeleyeva, Vol VI, No 5,
1961, pp 572-577.

JPRS 13670

The Course of Some Powder Reactions
in the Preparations of Lead Titanate,
by Arnost Bergstein, 15 pp.
CZECH, per, Chemicke Listy, Vol L, 1956,
pp 3-10. 9093456

AEC SCL-T-407

Contemporary State and Vistas in the
Development of Coordination Chemistry,
by A. A. Grinberg, 17 pp.
CZECH, per, Chemicke Listy, Vol LVI,
No 1, 1962, 10 pp. 9676727

FTD-TT-62-248

Vulcanization of Silicones (Fx), by
M. Schmidt, M. Wieber.
CZECH, per, Chemicke Listy, Vol LVI,
No 3, 1962, pp 286-288.

*FTD-TT-62-739

Chemical Division of Actinides.
Tertiary Amine Extraction and
Purification of Plutonium, by
M. de Trentinian, A. Chesne, 14 pp.
FRENCH, rpt, CEA Rpt. 1426. 9099908

AEC Tr-5018

Preparation of Uranium Sesquicarbide
and Uranium Dicarbide, by A. Accary,
J. Trouve, 26 pp.
FRENCH, rpt, Project Report 11, DM 942,
Dec 1960. 9093449

AEC Tr-5046

Scientific
Chemistry (Contd)

Selected Articles From the French
Report Colloquium on Corrosion of Steel.

- Certain Factors in Corrosion of
Stainless Steels in Aqueous Solu-
tions, by L. Colombier, (pp 111-125). *BISI 2770
- Study of Precipitation of Chromium
Carbide Responsible for Inter-
Crystalline Corrosion in Austenitic
Steels, by H. Hatwell, (pp 137-146). *BISI 2771
- Corrosion by Pure Water at High
Temperature of Stainless Steel,
by E. Pouillard, (pp 147-160). *BISI 2772
- Knife Edge Corrosion of Certain
Stainless Steel Wells, by J. Hochmann,
(pp 171-174). *BISI 2773
- The Irsid Seawater Corrosion Testing
Station, Principal Results Obtained
at Biarritz, by A. Hache, (pp 201-204). *BISI 2775
- Present State of Our Knowledge on the
Corrosion of Steels by Hydrogen
Sulphide, by E. Herzog, (pp 217-239). *BISI 2776
- Chemical and Electrochemical Properties
in Molten Lithium Chloride-Potassium
Chloride Eutectic, by G. Delarle.
FRENCH, rpt, Proprietes Chimiques et
Electrochimiques dans l'Eutectique de
Lithium Chlorure et Potassium Fondu,
1961, CEA-1847. *AEC
- Action of Water Vapor on Calcium Carbide,
by Jacques de Villelume, 3 pp.
FRENCH, per, Comptes Rendus, Vol CCXXXI,
20 Nov 1950, pp 1142, 1143. AEC Tr-4864

Scientific
Chemistry (Contd)

General Chemistry - On the Effect of Dispersion on the Quenching of Detonation of a Stoichiometric Methane-Oxygen Mixture by Finely Powdered Potassium Bitartrate, by J. C. Dumont. FRENCH, per, Comptes Rendus, Vol CCLII, No 24, 1961, pp 3806-3808.

Dept of Interior
TN7 E57 No 516

Intensiostatic and Potentiostatic Methods, by M. Pourbaix, F. Vandervelden. FRENCH, per, Corrosion et Anti-Corrosion, Vol IX, Nov 1961, pp 341-356; Dec 1961, pp 385-395.

*AEC HW Tr-36

Reaction Kinetics of Different Types of Carbon, General Introduction, Reactions of Graphite With Oxygen, by X. Duval, 13 pp. FRENCH, per, J de Chimie Physique, Vol LVIII, 1961, pp 3-11. 9093434

AERE, Harwell Tr-886

Investigations Into the Rotation Dispersion (Part) III, by I. Lifschitz, 10 pp. FRENCH, per, Recueil des Travaux Chimiques, Vol LXIX, 1950, pp 1495-1503. 9099869

AEC SCL-T-397

On the Scatter of Flotation Tests Results Obtained in the Laboratory. An Attempt to Improve the Laboratory Flotation Apparatus, by P. Raffinot. FRENCH, per, Rev de l'Industrie Minerale, Vol XLII, No 8, 1960, pp 654-668.

Broken Hill Prop Co Ltd
(CRL/T.678)

Supercritical Water as a Solvent for Electrolytes, by E. U. Franck, 44 pp. GERMAN, per, Angew Chem, Vol LXXIII, 1961, pp 309-322. 9099218

AEC HW Tr-33

Investigation of the Completeness of Estimation of Sulphur Content on Works Products, Using Various Combustion Processes, by D. Blazejak-Ditges. GERMAN, per, Archiv fuer Eisenhuettenwesen, Vol XXXI, No 12, 1960, pp 717-722.

BISI 2683

Scientific
Chemistry (Contd)

Pressure Sintering of Hafnium, Zirconium and Tantalum Carbides Without Binder, by B. Lersmacher, S. Scholz.
GERMAN, per, Archiv fuer Eisenhuttenwesen, Vol XXXII, No 6, 1961, pp 421-429.

HB 5246

The Static Hydraulic Stability of Boiling Water Reactors, by H. Kornbichler, 16 pp.
GERMAN, per, Atomkernenergie, Vol V, 1960, pp 397-400.

AEC Tr-4995

Some Reactions of Nickel Carbide, Ni₃C, Which Was Prepared at Low Temperature, by H. A. Bahr, Th. Bahr, 6 pp.
GERMAN, per, Berichte Deut Chem Ges, Vol LXIIIB, 1930, pp 99-102. 9093450

AEC Tr-5021

Some Medical and Biological Applications of Chelate Complexes, by J. Schubert.
GERMAN, per, Chimia, Vol XI, No 5, 1957, pp 113-124.

CSIRO

Colorimetical Determination of Zirconium With Alizarin, by S. Gubeli, A. Jacob.
GERMAN, per, Helvetica Chimica Acta, Vol XXXVIII, No 117, pp 1026-1032.

CSIRO

Radiation Chemistry of Hydrocarbons, 2d. Communication. (1) Benzene-Cyclohexane, by Tino Gaumann, 19 pp.
GERMAN, per, Helvetica Chimica Acta, Vol XLIV, 1961, pp 1337-1349. 9099881

AEC NP Tr-858

Radiation Chemistry of the Hydrocarbons, Part 4: Toluene, by Jurg Hoigne, Tino Gaumann, 13 pp.
GERMAN, per, Helvetica Chimica Acta, Vol XLIV, No 7, 1961, pp 2141-2150. 9093455

AEC SCL-T-410

Some Properties of the Binary Systems Frigen 12-Frigen 22 and of the Ternary System F 12-F 22-Naphthenic Mineral Oil, by H. J. Loffler,
GERMAN, per, Kaltetechnik, Vol XII, No 9, 1960, pp 256-260.

CSIRO

Scientific
Chemistry (Contd)

From Rubber (Resin) Polymer Mixes to
Rubber (Resin) Polymers. Recent
Developments in Rubber Resin Combinations.
GERMAN, per, Kautschuk und Gummi, Vol IX,
1956, pp 312-320.

CSIRO

Changes in Soap Particles Subjected to
Ultrasonic Vibration, by H. Mahl.
GERMAN, per, Kolloid Z, Vol CLVI, No 2,
pp 113-116.

CSIRO

Extrusion of Methacrylates, by
E. Friederich.
GERMAN, per, Junststoffe, Vol XLVII,
1957, pp 218-223.

CSIRO

Analytical Determination of the Polyester
Carboxyl Groups, by P. Fijolka, et al.
GERMAN, per, Makromolekulare Chemie,
Vol XXIII, No 1, 1957, pp 60-70.

CSIRO

Anhydrous Oxynitrates of Titanium and
Zirconium, by V. Gutmann, H. Tannenberger,
7 pp.
GERMAN, per, Monatsh Chem, Vol LXXXVII,
1956, pp 421-424. 9099884

AEC NP Tr-850

Investigation in the Niobium-Molybdenum-
Carbon System, by E. Rudy, F. Benesovsky,
25 pp.
GERMAN, per, Monatsh Chem, Vol XCII, 1961,
pp 841-855.

AEC Tr-5000

Effect of Oxide Content of Metal Powders
Being Sintered, by W. Rutkowski.
GERMAN, per, Neue Hutte, Vol VI, No 12,
1961, pp 788-790.

HB 5559

A Study of Aluminum-Phosphate Floccula-
tion as a Processing Method of Weakly
Radioactive Wastes, by K. F. Eschle, 31 pp.
GERMAN, per, Neue Technik, Vol III, 1961,
pp 151-161. 9099899

AEC Tr-5045

Scientific
Chemistry (Contd)

Iron Ore Reduction Trials in a
Cylindrical Rotary Furnace, by
F. Lucke, H. Serbent.
GERMAN, per, Technische Mitteilungen
Krupp, Vol XIX, No 4, Dec 1961,
pp 189-195.

BISI 2689

Kinetics and Mechanism of the Raschig
Hydroxylamine Synthesis, by F. Seel,
E. Degener.
GERMAN, per, Z Anorg und Allgem Chem,
Vol CCLXXXIV, 1956, pp 101-130.

CSIRO

The Behavior of Alkali Metals to
Semi-Metals. V. The Antimony
System With Potassium, Rubidium and
Caesium, by Friedrich Wilhelm Dorn,
Wilhelm Klemm, 17 pp.
GERMAN, per, Z Anorg und Allgem Chem,
Vol CCCIX, 1961, pp 189-203.

AEC UCRL Tr-764(L)

Investigation on the Cesium-Oxygen
System, by G. Brauer, 39 pp.
GERMAN, per, Z Anorgan Chemie, Vol CCLV,
1947, pp 101-124. 9093452

AEC Tr-5044

Preparative Extraction of Pure Hafnium
Compounds by Partition. The Separation
of Inorganic Mixtures by Means of Solvent/
Solvent Extraction IV., by W. Fischer,
W. Chalybaeus.
GERMAN, per, Z Anorgan Chemie, Vol CCLV,
1948, pp 277-286.

CSIRO

Fighting Sheet Metal Fires With Chemical
Powder Fire Extinguishers, by Arnold Kruger,
Martin Togel.
GERMAN, per, Z Giesserei, Vol XXXVIII,
No 1, 1961, pp 10-14.

ERD, Ft Belvoir T-1573

Beryllium Oxide as a Mineral and Its
Crystal Structure, by G. Aminoff.
GERMAN, per, Z fuer Kristallographie,
Vol LXII, 1925, pp 113-122.

*AEC

Scientific
Chemistry (Contd)

Detection and Determination of Acrolein
in Alcoholic Liquids, by L. Rosenthaler,
G. Vegezzi.

GERMAN, per, Z fuer Lebensmittel-Untersuchung und-Forschung, Vol XCIX, No 5,
1954, pp 352-361.

CSIRO

The Yield Point Single Crystals of
 α - Iron, by M. Evers.

GERMAN, per, Z fuer Metallkunde, Vol LII,
May 1961, pp 359-364.

BISI 2593

Concerning the Temperature Dependence of
the Absorption Edge in CdS-Crystals, by
Heinz Radelt, 7 pp.

GERMAN, per, Z fuer Naturforschung, Vol XVa,
No 3, 1960, pp 269, 270. 9676324

FTD-TT-62-129

Diffusion of Radon in Oxides After Recoil
Doping, by R. Lindner, H. J. Matzke, 9 pp.

GERMAN, per, Z fuer Naturforschung, Vol XVa,
1960, pp 1082-1086. 9093451

AEC Tr-5058

On Calcium Oxide - an Amphoteric Semi-
conductor, by K. Hauffe, G. Tranckler.
GERMAN, per, Z fuer Physik, Vol CXXXVI,
No 2, 1953, pp 166-178.

CSIRO

Experimental Investigation of the Flash
Point and the Speed of Reaction of the
Hydrogen-Oxygen Mixture, by H. Fiesel.

GERMAN, per, Z fuer Physik Chem, Vol XCVII,
1921, pp 158-178.

CSIRO

Validity of Lambert-Beer Law for Collodis,
by B. Lange.

GERMAN, per, Z fuer Physik Chem, Vol XLIX(a),
No 4, 1932, pp 277-294.

CSIRO

Studies on Protein Biosynthesis, I.
On Incorporation of C¹⁴-Labeled Amino
Acids Into Protein of Cellfree Nucleo-
protein Enzyme Systems From Escherichia
Coli B., by D. Schachtschabel, W. Zilling,
11 pp.

GERMAN, per, Z Physiol Chem, Vol CCCXIV,
1959, pp 262-275.

NIH 2-30-62

Scientific
Chemistry (Contd)

New Applications of Carbon Dioxide.
GERMAN, per, Z fuer Schweißtechnik,
No 2, 1956, pp 64-67.

CSIRO

Process for Preparing Medicinal Bee
Hormones, by Otto Krumml, 5 pp.
GERMAN, Patent Application K-11, 714,
30h, 2/04 (1952).

Dept of Comm
Patent Office
Sci Lib

Process for Recovering Concentrated
Hydrochloric Acid and Hydrogen Chloride
Gas From Acid Wood Sugar Solutions, by
A. G. Deutsche-Bergin.
GERMAN, Patent No 845,629.

CSIRO

Permeability of Synthetic Resin Films
to Gases and Vapours, by A. Cernia.
ITALIAN, per, Materia Plastica, Vol XXII,
No 5, 1956, pp 361-370.

CSIRO

Microscopical Chemical Analysis, by
Toshio Sudo.
JAPANESE, per, Bunseki Kagaku, Vol XI,
No 1, 1962, pp 140-147.

*AEC

Addition Compound of N-Phenyl-Glycine
and Quinaldic Acid, by D. Oda, 6 pp.
JAPANESE, per, Journal of the Chemical
Society of Japan, Vol LXXXII, No 5,
1961, pp 630-632.

NIH 2-37-62

Studies on the Manufacture of
Synthetic-Fibre Paper. Part I.
On the Mixed-Beating of Vinylon
Fibre and Pulp, by Sigeo Oyama, et al.
JAPANESE, per, Journal of Japan Tappi,
Vol XIV, 1960, pp 166-169.

NLL M.4356

On the Reactivity of Uranouranic Oxide.
I. The Thermal Decomposition of Uranyl
Nitrate (UNO), Ammonium Diuranate (ADU)
and Uranium Peroxide, (UPO), by
Rokuo Ukaji.
JAPANESE, per, Nippon Genshiryoku
Gakkaishi, Vol I, 1959, pp 405-411.

AEC Tr-4939

Scientific
Chemistry (Contd)

On the Reactivity of Uranouranic Oxide.
II. The Reactivity of Uranouranic Oxides
Prepared by Thermal Decomposition of
Uranyl Nitrate, Ammonium Diuranate and
Uranium Peroxide, by Rokuo Ukaji,
JAPANESE, per, Nippon Genshiryoku
Gakkaishi, Vol II, 1960, pp 117-121.

AEC Tr-4941

Preparation of Thorium Oxide Micro-
spheres (1) Production of Spherical
Thorium Hydroxide Particles, by
Y. Yamazaki, K. Yoshida, 11 pp.
JAPANESE, per, Nippon Genshiryoku
Gakkaishi, Vol III, No 5, 1961,
pp 360-364. 9099883

AEC NP Tr-864

Thermodynamic Studies of Cuprous Azide,
by Shin Suzuki.
JAPANESE, per, Nippon Kagaku Zasshi,
Vol LXXIV, No 4, 1958, pp 269-271.

ERDL, Ft Belvoir T-1253

Spectrophotometric Determination of
Small Amounts of Sulfate Ion, I-III,
by Iwasaki, Iwaji, et al.
JAPANESE, per, Nippon Kagaku Zasshi,
Vol LXXIX, No 1, 1958, pp 32-50.

*AEC

Chemical Analysis Using EDTA. Section 6:
Separation of Beryllium From Aluminum, by
Tomitsugu Takeoatsu.
JAPANESE, per, Nippon Kagaku Zasshi,
Vol LXXIX, 1958, pp 590-594.

*AEC

Studies of Calcium and Strontium
Complexes With Certain Aliphatic
Polycarboxylic Acids, by Z. Tamura,
Y. Matsushima, 8 pp.
JAPANESE, per, Yakugaki Zasshi, Vol LXXIX,
1959, pp 1526-1528. 9093435

UK AEA
AWRE Tr-26

Scientific
Chemistry (Contd)

Attempts to Establish a Technology of
Manufacturing Nitrocellulose-Coated
"Slide-Off" Transfer Papers, by
K. Palenik, Z. Myslinska.
POLISH, per, Przeglad Papierniczy,
No 8, 1959, pp 225-229.

NLL M.4601

Separation of Chemical Elements, by
Branca Edmee, Maria Regina Grade.
PORTUGUESE, per, Las Ciencias de Madrid,
Vol XXI, No 3, 1957, pp 405-411.

*AEC

Spraying Liquids in Centrifuge Discs,
Part I. Droplet Size and Variables of the
Operation, by A. Rius Miro, et al.
SPANISH, per, Sociedad Espanola de
Fisica y Quimica, Anales, Vol LIII(b),
No 1, 1957, pp 73-86.

CSIRO

Spraying Liquids in Centrifuge Discs,
Part II. The Paths and Velocities of the
Droplets, by A. Rius Miro, et al.
SPANISH, per, Sociedad Espanola de
Fisica y Quimica, Anales, Vol LIII(b),
No 1, 1957, pp 87-96.

CSIRO

Determination of the Position of
Double Carbon-Carbon Bonds by Mass
Spectrometry. Part I. Double Bonds
in the Methyl Esters of Cis-Petroselinic,
Oleic and Elaidic Acids, by
N. Dinh-Nguyen, R. Ryhage, 4 pp.
SWEDISH, per, Arkiv for Kemi, Vol XV,
No 40, 1959, pp 433-438.

NIH 1-14-62

Scientific
Electricity

Choice of a Rational Control Schedule
for an Electric Train, by G. N. Gromov.
RUSSIAN, per, Elek i Teplov Tyaga, No 12,
1960, pp 33-35.

NLL M.3423

The Use of Regenerative Braking in a
Wide Speed Range, by S. I. Osipov.
RUSSIAN, per, Elek i Teplov Tyaga,
No 12, 1960, pp 35-37.

NLL M.3424

Damage to Conductors With Insulation
Flashover on 35-220 kV Lines, by
V. N. Andrievskiy.
RUSSIAN, per, Elektricheskiye Stants,
Vol XXXI, No 9, 1960, pp 54-59.

NLL M.4260

The Correction of Thermister Temperature
Characteristics, by G. K. Nechayev.
RUSSIAN, per, Elektrichestvo, No 10,
1960, pp 63, 64.

NLL M.3464

Spark Prevention in Electrical Equip-
ment Operating in Explosive Atmospheres,
by V. S. Kravchenko, P. A. Fetisov.
RUSSIAN, per, Elektrichestvo, No 12,
1960, pp 48-52.

NLL M.3440

The Intrinsic Safety of High-Frequency
AC Circuits, by V. S. Kravchenko,
Sun Yui-chi.
RUSSIAN, per, Elektrichestvo, No 1,
1961, pp 77-88.

NLL M.3455

The Main Features of a Circuit With
Capacitor Connection of the Bridge
Convertors in DC Transmission, by
N. M. Mel'gunoy.
RUSSIAN, per, Iz Ak Nauk Issled Inst
Postoyannogo Toka, No 3, 1958, pp 255-281.

NLL/RTS 1908

Operation and Control of a DC Transmission
System With Intermediate Substations Con-
nected in Parallel, by L. M. Berlin, et al.
RUSSIAN, per, Iz Ak Nauk Issled Inst
Postoyannogo Toka, No 4, 1959, pp 5-18.

NLL/RTS 1962

Scientific
Electricity (Contd)

Operating Cycles and External Characteristics of a Twelve-Phase Cascade-Bridge Conversion Circuit, by M. G. Shekhtman.
RUSSIAN, per, Iz Ak Nauk Issled Inst Postoyannogo Toka, No 5, 1960, pp 23-63.

NLL/RTS 1899

Inductance of Sectional Paper Capacitors, by G. S. Kuchinskiy, K. M. Irkayeva.
RUSSIAN, per, Vest Elektroprom, Vol XXXII, No 11, 1961, pp 38-41.

*UK AEA AWRE Tr-35
Aldermaston

Surge Diverters for Protecting the Insulation of AC Electrical Equipment for Voltages From 3 to 220kV.
RUSSIAN, GOST 8934-58, 1959.

NLL M.3459

The Conel Circuit Breaker -- On the Necessity of Arc Stabilization and Neutralization, by J. C. Clason, 19 pp.
DUTCH, per, Schakelingen, No 58, Jul 1956, pp 16-23.

Dept of Commerce
Patent Office
Sci Lib

Notes on the Safety of Operation of Electrical Installations in Ships, by C. F. Maupas.
FRENCH, per, Association Technique Maritime et Aeronautique.

CSIRO

Electrostatic Voltmeters for High Voltages, by H. R. Flatt, 22 pp.
FRENCH, per, Bull Assoc Suisse Electriciens, Vol L, 1959, pp 890-897.

AEC SCL-T-399

Polyethylene Insulated and Sheathed Telephone Cables, by Kardos Gyorgy.
HUNGARIAN, per, Magyar Hiradastekhnika, Vol XII, No 6, 1961, pp 238-241.

*ACSI I-1375
ID 2198526

On the Elimination of the Edge Effect of Electrodes in the Breakdown of Solid Dielectrics, by Yukio Saito.
JAPANESE, per, Denki Gakkaishi Zasshi, Vol LVI, 1936, pp 1036-1041.

*AEC

Scientific
Electricity (Contd)

Process For the Manufacture of Carbon
Composition Resistors, by Teizo Maeda,
3 pp.
JAPANESE, Patent No 1,485, 1959.

AEC NP Tr-853

Disintegration of Wire Fuse at Closing,
by Jan Nasilowski, 11 pp.
POLISH, per, Przeglad Elektrotech,
Vol XXXVI, Sept 1960, pp 382-384.

AEC SCL-T-409

Phenomena Occurring at Disintegration
of Conductors at Overload Current at
Closing, by Jan Nasilowski, 26 pp.
POLISH, per, Przeglad Elektrotech,
Vol XXXVII, 1961, pp 397-403.

AEC SCL-T-408

Scientific
Electronics

Suppression of Radar Interference
Caused by Telegraph Equipment,
(Chapter 4); Suppression of Radio
Interference Caused by Telephone
Equipment, (Chapter 5); by S. A. Lyutov,
G. P. Gusev, (SF-1880).
RUSSIAN, bk, Podavleniye Industrial'nykh
Radiopomekh, 1960, pp 161-224; 317-318.

*JPRS

Reception of Radar Signals Against Back-
ground of Fluctuating Interferences,
by Fal'kovich.
RUSSIAN, bk, Priyen Radiolokatsionnykh
Signalov na fone Flyuktualsionnykh
Pomekh, 1961, 304 pp.

*ACSI I-1431
ID 2198536

Selected Articles From the Russian
Book Problemy Peredachi Informatsii,
No 8, 1961.

JPRS 13461

Principles of Designing a Contact-
less Machine for the Synthesis of
Switching Circuits, by V. G. Lazarev,
O. A. Oganov, et al, 31 pp, (pp 5-19).

On the Contact Complexity of Boolean
Functions, by A. A. Arkhangel'skaya,
V. G. Lazarev, et al, 53 pp, (pp 20-44).

On the Evaluation of the Complexity of
a Switching Circuit, by Cheng Tsun-liang,
44 pp, (pp 45-66).

Switching Circuits With Parametric
Functions and Many-Valued Logic, by
T. L. Maystrova, V. N. Roginskiy,
29 pp, (pp 121-131).

Electron Microscopic Investigation of the
Structure of Porous Bodies by the
Replica Method, edited by M. M. Dubinin.
RUSSIAN, rpt, Proceedings of the 2d
Conference 13-18 Jun 1956, Metody Issled
Strukturny Vysokodispersnykh i Poristykh
Tel, Iz Ak Nauk SSSR, pp 19-36.

NLL M.1958

**Scientific
Electronics (Contd)**

A Photoelectric System for Automatic Guiding of Telescopes, by P. V. Nikolayev.
RUSSIAN, bk, Sbornik Rabot po Voprosam Elektromekhaniki, Institut Elektromekhaniki, Ak Nauk SSSR, No 4, 1960, pp 189-201.

*FTD-TT-62-735

Selected Articles From the Russian Periodical Avtomatika.

No 1, 1961.

JPRS 13268

The Relation of the Theory of Invariance to the Theory of Differential Controllers, by O. H. Ivakhnenko, 37 pp, (pp 3-24).

Equivalence Condition of Differential-Control Systems and Control Systems by Disturbance, by O. M. Kostynk, 7 pp, (pp 26-31).

The Creation of Automatic Systems Invariant to Disturbance, by M. M. Chumakov, 18 pp, (pp 33-45).

No 6, 1961.

JPRS 13671

On a Sufficient Criterion of Stability of Non-Linear Linked-Control Systems, by A. K. Bedel'bayev, 7 pp, (pp 3-8).

On the Question of the Invariance of the Output Coordinate of a Non-Linear Control Object With Unstable Parameters, by O. M. Kostyur, 5 pp, (pp 10-13).

Investigation of a Non-Linear Astatic Auto-Control System, by I. I. Krynets'kiy, E. A. Mozgova, 15 pp, (pp 15-24).

Scientific
Electronics (Contd)

Selected Articles From the Russian
Periodical Avtomatika. (Contd)

No 6, 1961.

JPRS 13671

Analysis of the Dynamic Properties
of One Class of Automatic-Control
Systems, by V. S. Lerner, 13 pp,
(pp 26-35).

Investigation of the Criticality of
Adjustments of Two-Circuit Monitoring
Systems and of Monitoring Systems
With Non-Single Feedback, by
V. S. Nedavnyi, 22 pp, (pp 36-50).

Finding Approximate Solutions of
Nonlinear Differential Equations
Describing Transient Processes in
Automatic-Control Systems, by
V. V. Pavlov, 12 pp, (pp 52-59).

Some Qualitative Peculiarities
of Nonlinear Circuits With a
Nonlinear Element Having a Piecewise
Linear Characteristic, by
L. A. Sinit's'kiy, Yu. M. Shunkov,
12 pp, (pp 61-68).

The Theory of Invariance and the
Minimum Mean Quadratic Error for
Automatic-Control Systems, by
A. G. Shevel'yev, 6 pp, (pp 70-75).

Complex Periodic States in a Relay
Extremal System, by Yu. S. Popkov.
RUSSIAN, per, Avtomat i Telemekh,
Vol XXII, No 12, 1961, pp 1585-1592.

*FTD-TT-62-555

Estimation of Level of Frequency Com-
bination and of Allowance Variations of
Frequency Code Signal Level in Simultaneous
Telemechanical Transmission, by
V. L. Inosov, B. K. Skirta.
RUSSIAN, per, Avtomat i Telemekh,
Vol XXIII, No 2, 1962, pp 214-221.

*FTD-TT-62-661

Scientific
Electronics (Contd)

Stability of a Frequency System of
Telecontrol in Presence of Pulse Noise,
by Yu. I. Chugin.
RUSSIAN, per, Avtomat i Telemekh,
Vol XXIII, No 2, 1962, pp 222-241.

*FTD-TT-62-636

The Electronic Brain in the Service
of Man, by A. Preanyakov, 5 pp.
RUSSIAN, np, Ekon Gazeta, No 8, 19 Feb
1962.

JPRS 13702

Limiting the Switching Surges on
Electric Rolling Stock, by K. B.
Aleksandrov.
RUSSIAN, per, Elek i Teplov Tyaga,
No 12, 1960, pp 15-17.

NLL M. 3467

The ER7 A.C. Electric Train, by
M. T. Glushkov, K. B. Goncharov.
RUSSIAN, per, Elek i Teplov Tyaga,
No 4, 1961, pp 22-28.

NLL M. 3472

Protection of Locomotive Rectifiers
Against Arc-Backs, by B. N. Tikhmenev.
RUSSIAN, per, Elek i Teplov Tyaga,
No 4, 1961, pp 31-34.

NLL M. 3473

Testing the Inter-Turn Insulation of
the Windings of Electric Motors Under
Operating Conditions, by M. V. Smirnov.
RUSSIAN, per, Elektrichestvo, No 5,
1955, pp 49-51.

NLL M. 3465

High-Speed Differential Relay Protection
Using Semiconductors, by G. T. Grek.
RUSSIAN, per, Elektrichestvo, No 3,
1960, pp 14-20.

NLL M. 3474

The Dielectric Properties and Stability
of Transformer Oils, by Ch. M. Dzhuvarly.
RUSSIAN, per, Elektrichestvo, No 3,
1961, pp 83-86.

NLL M. 3469

**Scientific
Electronics (Contd)**

Conditions of Super-High Frequency Electromagnetic Field Irradiation of Those Working on the Tuning and Testing of Radio Engineering Instruments, by Yu. A. Osipov, Ye. L. Kulikovskaya, 4 pp.

RUSSIAN, per, Gig i San, Vol XXVII, No 2, 1962, pp 100-102.

JPRS 13691

Operation of a Three-Phase Bridge Inverter Fed From Two Single-Phase Transformers With Windings Connected to Form an "Open Delta" System, by A. M. Pintsov, Yu. S. Kraichik.

RUSSIAN, per, Iz Ak Nauk Issled Inst Postoyannogo Toka, No 4, 1959, pp 97-113.

NLL/RTS 1963

The Design of Maximum-Capacity Turbo-Generators, by I. D. Urusov.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Energ i Avtomat, No 6, 1959, pp 22-23.

NLL M. 3352

Machines Compute, by V. Shikan, 16 pp.

RUSSIAN, per, Nauka i Zhytтя, No 9, 1961, pp 20-23.

JPRS 13589

Bioelectric Control Systems, by A. Kobrinskiy, 9 pp.

RUSSIAN, per, Radio, No 11, 1960, pp 37-39. 9676328

FTD-TT-62-36

Problems of the Lamb Type for the Wave Equation in a Linear Non-homogeneous Half-Space, by

A. S. Alekseyev, 68 pp.

RUSSIAN, per, Ucheny Zapiski Leningrad, Gosudarst Univ, No 246, 1958, pp 167-227. 9676741

FTD-TT-61-191

Scientific
Electronics (Contd)

State of the Art in Automatic Electric Drives, by V. S. Aleksandrov, et al. RUSSIAN, per, Vest Elektroprom, No 10, 1961, pp 7-12.

*ERDL, Ft Belvoir T-1509

Nature of the Currents Producing the Fundamental Component of the Hum in Radio Valves, by A. R. Shulgin. RUSSIAN, per, Zhur Tekh Fiz, Vol XX, No 12, 1950, pp 1505-1508.

CSIRO

A Method of Controlling the Beam of High Directional Line and Surface Antenna Arrays, by L. N. Deryugin. RUSSIAN, Patent 138,974, Application No 662481/26.

*FTD-TT-62-755

Selected Articles From the Czech Periodical Slaboproudý Obzor.

Vol XXII, No 5, 1961, pp 265-274. The Signalling and Switching System TESLA MN-60 for the Semi-Automatic International Service, by Josef Pekarek, Miroslav Novotny.

*ACSI I-1378
ID 2198529

Vol XXII, No 8, 1961, pp 487-491. Determining the Speed and Position Parameters of Aircraft by Way of Interference of VHF Long-Distance Reception, by J. Pokorný.

*FTD-TT-62-790

Vol XXII, No 7, 1961, pp 391-397. A Map Pickup for Radar, by Tomas Hornak, Lubomir Jiricek, 10 pp.

ACSI I-1373
ID 2198524

Vol XXII, No 12, 1961. A. Influence of Thermoelectric Refrigeration on the Value of the Collector Reverse Current and the Power of Germanium Junction Transistors, by Vladimir Ilberg, Ladislav Stourac, (pp 725-728).

*ACSI I-1379
ID 2198530

B. Analysis of Radar Working With Elliptically Polarized Antenna During Atmospheric Precipitations, by Dominik Kupcak, (pp 734-739).

Scientific
Electronics (Contd)

Nuclear Electronics. Proceedings of the International Symposium on Nuclear Electronics Organized by the French Society of Radioelectricians, 506 pp.
FRENCH, rpt, L'Electronique Nucleaire: Comptes Rendus du Colloque International sur l'Electronique Nucleaire Organise par la Societe Francaise des Radioelectriciens, 1959. 9093436

AEC Tr-4546

A Theoretical Investigation of Curves Given by a Gamma Spectrograph With a Single Variable Channel, by J. C. Philippot, 29 pp.
FRENCH, per, Bull Inform Sci et Tech, No 45, Nov 1960, pp 2-12.

AEC NP Tr-841

Powerful Electrostatic Machines, by N. J. Felici.
FRENCH, per, Journal de Physique et le Radium, Vol VIII, No 4, 1948, pp 66-80.

CSIRO

Concerning Electromagnetic Wire Waves, by D. Hondros, 50 pp.
GERMAN, per, Annalen der Physik, Vol XXX, No 2, 1909, pp 905-950. 9676331

FTD-TT-61-362

Intelligibility of Amplitude-Limited Speech, by H. Schneider.
GERMAN, per, Frequenz, Vol X, No 4, 1956, pp 97-106.

CSIRO

Design of Filters With Aid of Catalogs for Normalized Low-Pass, by R. Saal.
GERMAN, per, Frequenz, Vol XV, No 4, 1961, pp 111-121.

*AFCRL Res Lib

On the Behaviour of AC Arcs in Vacuum, by G. Muller.
GERMAN, per, Z. fuer Angewandte Physik, Vol VIII, No 5, 1956, pp 234-237.

CSIRO

Scientific
Electronics (Contd)

On Thermal Conduction in the Heavy Current Arc, by K. H. Hocker, P. Schulz.
GERMAN, per, Z. fuer Naturforschung,
Vol IV(a), No 4, 1949, pp 266-270.

CSIRO

Selected Abstracts From East European Electronics Journal, 55 pp.
HUNGARIAN, CZECH, RUMANIAN, periodicals.

JPRS 13570

Selected Abstracts From East European Electronics Journals, 17 pp.
HUNGARIAN, GERMAN, POLISH, periodicals,
1962.

JPRS 13817

Electrothermic Process for Vanadium Slag,
by Sandor Pallagi, 8 pp.
HUNGARIAN, per, Komaszati Lapok,
Vol XCIV, No 11, 1961, pp 512-514.

JPRS 13596

Self-Trapped Electron and the Acoustical Mode Lattice Vibration,
by Yutaka Toyosawa, 18 pp.
JAPANESE, per, Busseiron Kenkyu,
Vol II, No 7, 1960, pp 123-141.

AEC Tr-4962

Electron Probe Micro-analyzer, by
Yoneichiro Sakaki, Takashi Nagatani.
JAPANESE, per, Journal of Electron-microscopy, Vol X, No 2, 1961, pp 65-76.

*AEC

Integrator With Error Compensation for Integrating Long Lasting Processes,
by Jerzy Kopka, 9 pp.
POLISH, per, Pomiary Automatyka Kontrola,
No 3, 1960, pp 94-96. 9676742

FTD-TT-61-22

Electric Current Without Turbine, by
Robert Szewakski, 5 pp.
POLISH, per, Przeglad Techniczny,
No 21, 1961, pp 3. 9676332

FTD-TT-61-310

**Scientific
Electronics (Contd)**

Basic Characteristics of a Transducer
Magnetometer With a Pulse Output,
by Jan Kulikowski, Maciej Nalencz, 31 pp.
POLISH, per, Rozprawy Elektrotechniczne,
Vol VI, No 4, 1960.

JPLAI/IOM/T-31

Radioelectronic Countermeasures in
Aviation, by W. Wojciechowski.
POLISH, per, Wojskowy Przeglad Lotniczy,
No 6, 1961, pp 43-52.

*FTD-TT-62-785

Interplanetary Radio Communication, by
Gh. Rulea.
RUMANIAN, per, Stiinta si Tehnica,
No 3, 1961, pp 17, 18.

*FTD-TT-62-786

Scientific
Engineering

Pile Driving by Electroosmosis, by
B. A. Nikolayev.
RUSSIAN, bk.

CB

On Application of Adaptive Systems for
Automation Designing Control Systems
and Processes, by V. K. Chichinadze,
O. A. Charkviani.
RUSSIAN, bk, Annotatsiya - k Doklady k
Voprosy Primeneniya Samonastraivaiushchikhhsya,

*FTD-TT-62-748

Automatic Control and Computer Technology,
498 pp.
RUSSIAN, collection of papers, Automatic
Control and Computer Technology, No 4,
Moscow, 1961, pp 1-383.

JPRS 13436

Electrochemical Induration of Weak Rocks,
by N. I. Titkov, et al.
RUSSIAN, bk, Elektrokhim Metod Zak
Rapleniya Neustoichiviykh Cornykh Porod.

CB

Electroslag Welding, by B. Ye. Patona.
RUSSIAN, bk, Elektroshakovaya Svarka,
2nd Edition, 1959, 410 pp.

*Reinhold Publ. Co

Ionization X-Ray Equipment for Research
on Crystalline Materials at Various
Temperatures, by P. F. Konovalov,
A. I. Efremov, B. V. Volkonskiy, 102 pp.
RUSSIAN, bk, Ionizatsionnaya Rentgeno-
strukturyay Ustanovka Dliya Issledovaniya
Kristallicheskikh Veshchestv Pri
Rezlichnykh Temperaturakh, 1958.

OTS 60-51136
PL-480

Novokubyshevsk Civil and Residential Con-
struction, b, A. I. Tselikov, A. P.
Slobotiyarik, 9 pp.
RUSSIAN, bk, Novokubyshevsk Zhilischno-
Grazhdanskoy Stroitel'stvo, 1961.

JPRS 13643

Scientific
Engineering (Contd)

Results of the Application of a New Pattern Alloy in the Production of Precision of Castings, by Z. A. Shageyev, 16 pp.

RUSSIAN, bk, Novyye Tekhnologicheskiye Protsessyi Rekomendatsii po Konstruirovaniyu Form pri Proizvodstve Tochnogo Litya, No 14/15, 1959, pp 47-64.

9676525

FTD-TT-61-334

New Materials for "Melting Out" Patterns Based Upon the Bitumen of Brown Coal (Lignite), by R. M. Senina, V. N. Ivanov, 10 pp.

RUSSIAN, bk, Novyye Tekhnologicheskiye Protsessyi Rekomendatsii po Konstruirovaniyu Form pri Proizvodstve Tochnogo Litya, No 14/15, 1959, pp 65-75.

9676525

FTD-TT-61-334

Metallurgy and Corrosion Protection, Section D, 127 pp.

RUSSIAN, bk, Peredovoi Nauchno-Tekhnicheskii i Proizvodstvennyi Opyt, 1958, Tema 3, No M-58-264/10, pp 3-15; Tema 4, No M-58-370/4, pp 3-13; Collectional, Tema 13, No M-58-19/2, pp 3-20; Tema 13, No M-58-178/20, pp 3-8; Tema 13, No M-58-369/40, pp 3-11; Tema 19, No M-58-388/8, pp 3-27; Tema 23, No M-58-110/2, pp 3-29.

OTS-60-51088
PL-480

The Use of Precast Reinforced Concrete in Hydraulic Structures, by A. A. Berezinskiy, 236 pp.

RUSSIAN, bk, Primeniye Sbornogo Zhulezobetona v Gidrotec Knicheskikh Sooruzheniyakh, 1959, 430 pp.

ACSI I-1056
ID 2191531

Problems of Building Large Turbogenerators, by V. P. Anempodistov, E. G. Kasharskiy, I. D. Urusov.

RUSSIAN, bk, Problemy Krupnogo Turbo-generatorostroyeniya, 1960, pp 1-4, 8-30, 59-68, 70-73.

*FTD-TT-62-174

Scientific
Engineering (Contd)

The Distribution of Tensions in Com-
pressor Blades During Oscillation,
by I. I. Meyerovich.
RUSSIAN, bk, Respredeleniye Napryazheniy
v Kompressornykh Lopatkakh pri
Kolebaniyakh, 1961, 108 pp.

*FTD-TT-62-740

Cold Surface-Working of Metals by the
Method of Plastic Deformation, by
Kudryavtsev, Yu. G. Shneyder, Yu. V.
Shulikov, 62 pp.
RUSSIAN, bk, Sovremennoye Sostoyaniye
i Napravleniya Razvitiya Tekhnolog
Mash i Priborostroeniya, 1960,
pp 163-196. 9676765

FTD-TT-61-335

Some Problems Involved in the Use of
Lubricating and Cooling Liquids in
Treating Metals by Cutting, by
N. F. Kazakov, 14 pp.
RUSSIAN, bk, Sovremennoye Sostoyaniye
i Napravleniya Razvitiya Tekhnolog
Mash i Priborostroeniya, 1960,
pp 232-238. 9676765

FTD-TT-61-335

Development, Prospects, and Tasks in
the Field of Integrated Automation
and Mechanization of Production,
by A. V. Derbisher, 9 pp.
RUSSIAN, bk, Sovremennoye Sostoyaniye
i Napravleniya Razvitiya Tekhnolog
Mash i Priborostroeniya, 1960,
pp 502-505. 9676765

FTD-TT-61-335

Scientific
Engineering (Contd)

Selected Articles From the Russian
Book Stabilizatsiya Plameni i
Razvitiye Protsessa Sgoraniya v
Turbulентnom Potoke; Sbornik Statey,
Moscow, 1961.

*FTD-TT-62-768

Effect of Turbulence Parameters
on the Velocity of Flame Propaga-
tion, by G. M. Gorbunov, (pp 31-47).

Investigation of Flame Propagation
and Stabilization Behind a Trough-
Shaped Stabilizer, by E. L. Solokhin,
(pp 48-74).

Effect of Turbulence Parameters on
the Combustion Process in a Homo-
geneous Gasoline-Air Mixture Behind
a Stabilizer Under Closed-Flow
Conditions, by V. P. Solntsev,
(pp 75-108).

Combustion of a Gasoline-Air
Mixture Behind Stabilizer Systems,
by V. P. Solntsev, V. A. Golubev,
(pp 109-127).

Calculation of a Simple Ramjet-Type
Combustion Chamber, by K. P. Vlasov,
(pp 128-148).

Roll - Pass Design and Drawing of Tubes
in Two-Three-, and Four- Roll Reducing
and Sizing Mills, by G. I. Gulyayev,
V. A. Yurgelenas.
RUSSIAN, bk, Stal', Sbornik Statei,
1961, pp 335-353.

BISI 2727

Machine Tools With Program Control,
by V. Butusov, 66 pp.
RUSSIAN, bk, Stanki s Programnym
Upravleniem, 1960, pp 32-73.

JPRS 13631

Scientific
Engineering (Contd)

Theory and Design of Pneumatic Power Devices, by Ye. V. Gerts, G. V. Kreyzin, (DC-6812).

RUSSIAN, bk, Teoriya i Raschet Silovykh Pnevmaticheskikh Ustroystv, 1960, pp 1-178.

*JPRS

Heat Exchange and Hydrodynamics. RUSSIAN, bk, Teploobmin ta Hidrodynamika, Kiyiv, Vydamytstvo Ak Nauk USSR, 1959, pp 3-73.

*FTD-TT-62-765

Turboprop Engines; Working Process and Operational Characteristics, by P. K. Kazandzhan, A. V. Kuznetsov.

RUSSIAN, bk, Turbovintovyye Dvigateli; Rabochiy Protsess i Ekspluatatsionnyye Kharakteristiki, 1961, 263 pp.

*FTD-TT-62-767

Uranium Graphite Power Reactor With Direct Feeding of Steam to Turbines, by N. A. Dolleshal', P. I. Aleshchenkov, 18 pp.

RUSSIAN, bk, Uran-Grafitobyy Energeticheskiy Reaktor s Pryamoy Podachei para v Turbiny, 1961, 19 pp. 9676526

FTD-TT-61-342

Seminar on the Utilization of Isotopes and Nuclear Radiation in Blast Furnace Operations, by P. L. Gruzin, 4 pp.

RUSSIAN, per, Atomnaya Energiya, Vol XI, No 3, Sep 1961, pp 268, 269.

JPRS 13670

Scientific Technical Conference on Physical Methods of Nondestructive Test of Materials, by V. A. Tsechal'.

RUSSIAN, per, Avtomat Svarka, No 10, 1961, pp 91-93.

*FTD-TT-62-564

Some Elements of a System for Distant Transmission of Information, by L. P. Tilupov, Yu. A. Antonov, 13 pp.

RUSSIAN, per, Avtomat Telemekh i Svyaz', No 12, 1961, pp 12-16.

JPRS 13587

Scientific
Engineering (Contd)

Rubber Compression Springs for Twin-Axled Motor Transporter Trailers,
by E. I. Lakh.

RUSSIAN, per, Avto Prom, No 11,
1959, pp 25-28.

NLL/RTS 1872

Improvement of Oil Filtering by
Centrifuge With Additional Magnetic
Separator, by Gol'dfel'd, Vaysbut,
5 pp.

RUSSIAN, per, Avto Prom, No 4, 1961,
pp 12-14.

ACSI I-0067
ID 2174796

Six-Axle Railroad Tank Car of 90-Ton
Load Capacity, by P. M. Praga, 3 pp.
RUSSIAN, per, Byul Tekh Ekon Informat,
No 12, 1961, pp 75-77. 9676338

FTD-TT-62-215

From the Experience of the Work of the
Geodetic Section of the Kuybyshev
Branch of the All-Union Astronomical
and Geodetical Society (VAGO), by
K. A. Losev, (NY-7111).
RUSSIAN, per, Byul Vses Astronomo-
Geodezicheskogo Obshch, No 28 (35),
1960, pp 51-55.

*JPRS

On the Breaking Up of the Schrodinger
Operator Into Eigen-Functions in the
Case of an Indefinitely Increasing
Function, by B. M. Levitan.
RUSSIAN, per, Dok Ak Nauk SSSR,
Vol CIII, 1955, pp 191-194.

CSIRO

Engineering Psychology, by
A. Leont'yev, 15 pp.
RUSSIAN, np, Ekon Gazeta, No 20
18 Dec 1961, pp 22, 23.

JPRS 13703

Growth Rate and Progress of USSR
Power Engineering, by I. Novikov,
21 pp.
RUSSIAN, np, Ekon Gazeta, No 14 (35),
2 Apr 1962, pp 6, 7.

JPRS 13692

Scientific
Engineering (Contd)

The NB-412M Traction Motor of the N60 AC Locomotive, by P. A. Zolotaryev, V. I. Bocharov.

RUSSIAN, per, Elek i Teplov Tyaga, No 12, 1960, pp 19-22.

NLL M.3466

Unbalance of Flexible Rotors, by S. I. Mikunis.

RUSSIAN, per, Elek Stants, No 11, 1960, pp 56-69.

NLL M.3330

Investigation of Thermal Conditions and Elimination of Overheating in a Hydro-generator Step Bearing, by A. E. Aleksandrov.

RUSSIAN, per, Elek Stants, No 3, 1961, pp 49-55.

NLL M.3468

Designing Reactors With a Steel Magnet Circuit and Air Gaps, by E. A. Man'kin.

RUSSIAN, per, Elektrichestvo, No 7, 1959, pp 35-41.

NLL M.3461

Changeover of the Fuel-Feed System of a Power Station to Semi-Automatic Working, by V. I. Bernotovich, et al.

RUSSIAN, per, Energetik, Vol VII, No 7, 1959, pp 8, 9.

NLL M.4488

Investigation of Steel Grades and the Manufacture of Welded Steel Shafts of Large Water Turbines, by A. S. Gel'man, I. R. Kryannin, V. V. Levando, et al, 12 pp.

RUSSIAN, per, Energomash, No 12, 1959, pp 33-37. 9099510

OTS 60-51134
PL-480

Some Results of Stress to Rupture Investigations Under Conditions of Variable Stress and Temperature, by M. P. Rozanov, E. I. Rusanova.

RUSSIAN, per, Energomash, Vol VI, Nov 1960, pp 36-39.

BISI 2066

Scientific
Engineering (Contd)

Comparative Investigations on Heat Transfer and Pressure Drop of Finned Surfaces, by V. M. Antuf'yev.
RUSSIAN, per, Energomash, Vol VII, No 2, 1961, pp 12-16.

NLL M.3429

Thermomagnetic Treatment and Ordering Processes II. The Influence of Thermomagnetic Treatment on Structural Changes in Alloys Capable of Being Ordered, by A. A. Glazer, Ya. S. Shur.
RUSSIAN, per, Fiz Metal i Metallov, Vol VI, No 1, 1958, pp 52-59.

NLL M.4594

Selected Articles From the Russian Periodical Gid i Meliorat. 9099501

OTS 61-11430
PL-480

Vol XI, No 6, 1959.
Toward Better Utilization of Irrigated Lands, 3 pp, (pp 3-5).

Precast Curved Reinforced Concrete Canal Sections, by S. G. Khlebnikov, A. K. Shanshiyev, V. A. Chaganava, 14 pp, (pp 6-14).

Prefabricated Reinforced Concrete Canal Lining of the Verkhne-Dal'verzinskiy System, by N. V. Shrugin, 7 pp, (pp 15-19).

Grouting of Hydraulic Structures Subject to the Action of Artesian Ground Water, by G. A. Chumakov, 5 pp, (pp 35-38).

Vol XI, No 7, 1959, pp 10-16.
The Irrigation Furrow and Layout of the Irrigation Ditch, by I. I. Budarin, 7 pp.

Scientific
Engineering (Contd)

Investigation of the Radiation Field Structure in Solar Energy Utilization Units With Reflecting Concentrators,
by D. I. Teplyakov, (DC-6820).
RUSSIAN, per, Inzhenerno-Fiz Zhur,
Vol I, No 4, 1958, pp 31-39.

*JIRS

The Boundary Layer on a Flat Plate
Taking Account of Imbalance Due
to Rate of Dissociation, by
V. P. Stulov.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel
Tekh Nauk, Mekh i Mash, No 3, 1961,
pp 5-12.

*FTD-TT-62-799

Imbalanced Flows of Dissociating Air
Which Are Near to Equilibrium, by
L. M. Pavlova.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel
Tekh Nauk, Mekh i Mash, No 3, 1961,
pp 13-17.

*FTD-TT-62-799

Restoration and Investigation of the
L. A. Sukharev Coordinate Measuring
Machine, by G. A. Plyugin.
RUSSIAN, per, Iz Glavnay Astron Observ
v Pulkove, Vol XXII, No 1, 1960,
pp 184-196.

*FTD-TT-62-799

On the Joint Operation of the Rotor
and the Bladed Diffusor of a
Centrifugal Compressor, by N. A.
Alemasova.
RUSSIAN, per, Iz Vysshikh Ucneb Zaved,
Aviats Tekh, No 3, 1959, pp 36-45.

NLL M.3340

Generalized Thermodynamic Features of
Two-Circuit Jet Engines, by A. L.
Klyachkin, 11 pp.
RUSSIAN, per, Iz Vysshikh Ucneb Zaved,
Aviats Tekh, No 4, 1961, pp 94-103.
9676769

FTD-TT-62-446

Scientific
Engineering (Contd)

Rationalisation of the Shape of a
Piercing Mandrel, by V. V. Shveikin.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved,
Chern Metal, No 8, 1960, pp 81-87.

*BISI 2785

Flow Effects in the Blast-Furnace
Bosh, by B. I. Kitayev, A. S. Kukarkin.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved,
Chern Metal, No 10, 1960, pp 40-45.

HB 5085

Desulfurization of Steel Bath in the
Basic Oxygen Furnace, by S. G.
Afanas'yev, D. I. Turkenich.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved,
Chern Metal, No 11, 1961, pp 57-59.

HB 5471

Prospects and Possibilities of Using
Aluminium in Electrical Machines, by
V. V. Peregudov.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved,
Elektromekh, No 1, 1961, pp 121-124.

*FTD-TT-62-676

Temperature Field of Discharge of
Electric Ignition Systems, by M. V.
Gutovskiy.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved,
Energet, No 8, 1961, pp 37-46.

*FTD-TT-62-795

Surface Tension of Metals, by
M. G. Ramazanzade, 3 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved,
Fiz, No 1, 1959, pp 172-173. 9097850

AEC Tr-4937

A Thermoelectric Refrigerator, by
I. N. Pomazanov, P. L. Tikhomirov.
RUSSIAN, per, Kholodil Tekh, Vol IV,
1961, pp 24-27.

*AEC

Coke Quality and the Working of Blast
Furnaces, by A. S. Bruk.
RUSSIAN, per, Koks i Khim, Vol IX,
No 10/11, 1939, pp 7-9.

NLL N.4281

Scientific
Engineering (Contd)

Loss of Stability in the Plane Form
of a Circular Saw Blade as a Result
of Thermal Stresses, by G. S. Gurkin.
RUSSIAN, per, Les Zhur, Vol II,
No 1, 1959, pp 112-125.

NLL M.4608

A New Barometric-Condenser Design,
by B. G. Luchin.
RUSSIAN, per, Maslob Zhir Prom,
Vol XVIII, No 7, 1953, pp 30-31.

NLL M.4259

Ballistodynamocardiograph Type Bdkg-01,
by A. B. Venediktov, M. I. Tishchenko,
17 pp.
RUSSIAN, per, Medit Prom SSSR, No 2,
1962, pp 53-58.

JPRS 13771

Mathematical Methods in the Automation
of Productive Processes, by
A. I. Dlin, 5 pp.
RUSSIAN, per, Mekh i Avtomat Proiz,
Jan 1962.

JPRS 13701

Variation in the Surface Layer of Metal
Under the Action of Spark Machining,
by Z. Shtaininge, T. Dol'nitskiy.
RUSSIAN, per, Metal i Term Obrab
Metall, No 1, 1961, pp 29-33.

NLL M.3425

A Sprinkling-Runoff Unit, by I. L.
Zimont, 4 pp.
RUSSIAN, per, Met i Gid, No 1, 1959,
pp 54-57. 9099508

OTS 60-51029
PL-480

New Steam and Gas Turbines, by V. Egerov.
RUSSIAN, per, Narod Khoz Kazakh, Vol XVIII,
No 5, 1960, pp 70-73.

NLL M.3470

Investigation Into the Explosion Safety
of Electrical Equipment, by V.
Ul'yashchenko.
RUSSIAN, per, Pozharnoye Delo, No 6,
1957, p 9.

NLL M.3434

Scientific
Engineering (Contd)

The Talking Automat, by A. Kanashhevicha,
3 pp.
RUSSIAN, np, Pravda, Vol L, No 350
(15840), 15 Dec 1961, pp 4. 9676337

FTD-TT-62-217

Selected Articles From the Russian
Periodical Priborostroyeniye.

Vol IV, No 3, 1961, pp 120-129 (?).
9676738

FTD-TT-61-381

Determining Local Heat-Transfer
Coefficients and Thermal Fluxes
Under Conditions of Highly Intensive
Heat Exchange, by A. P. Pershin,
17 pp.

No 1, 1962, pp 4, 5, (DC-6846).
Recent Trends in Instrument Con-
struction (Computing Equipment),
by A. I. Grishin, G. I. Kavalerov,
et al.

*JPRS

No 2, 1962.
Prospects of Developing the Produc-
tion of Pneumoautomation Means,
8 pp, (pp 1-3).

JPRS 13580

The Problem of Designing a
Standardized System of Meters, by
V. L. Kenigsberg, A. Ya. Yurovskiy,
10 pp, (pp 3-5).

JPRS 13582

Oil Moisture Separator for Compressed
Air, by D. I. Rubanovich.
RUSSIAN, per, Prom Energet, Vol XVI,
No 6, 1961, pp 30-33.

*ERDL, Ft Belvoir T-1501

Ultrasonic Sounding Device REKA for
River Navigation, by B. I. Lashkov,
11 pp.

RUSSIAN, per, Rechnoy Transport,
Vol XVII, No 10, 1958, pp 47-49.

Navy Tr 3115/ONI 843

Scientific
Engineering (Contd)

Selected Abstracts From Soviet Abstracts
Journal, Machine Building, 58 pp.
RUSSIAN, per, Referativnyy Zhur,
Mashinostroyeniye, No 14/16, 18/19,
22/24, 1961.

JPRS 13427

Selected Abstracts From Soviet
Abstracts Journal, Mechanics, 8 pp.
RUSSIAN, per, Referativnyy Zhur,
Mekhanika, No 12, 1961.

JPRS 13591

Initial Priming of Siphon Spillways,
by G. A. Karev, 24 pp.
RUSSIAN, per, Sbornik Nauchnykh Trudov,
Tomskiy Inzhenerno-Stroitel'ny Institut,
Vol II, 1957, pp 97-123. 9099500

OTS 61-11433
PL-480

A Comparison of Pneumatic and Hydraulic
Braking Devices for Pilger Mill Feed
Machines, by V. S. Artyukh.
RUSSIAN, per, Stal', 1958, pp 338-351.

NLL M.4068

Manufacture of Seamless Tubes From
Vacuum-Cast Hollow Tube Blanks, by
Ya. B. Gurevich, V. E. Neimark.
RUSSIAN, per, Stal', Vol XVIII, No 5,
1958, pp 446-448.

HB 4263

Remote Control and Automation of
Tractor Driving, by S. Gel'fenbein,
6 pp.
RUSSIAN, per, Tekhnika v Sel'skom Khoz,
No 1, 1960, pp 25-27. 9099509

OTS 60-51064
PL-480

Scientific
Engineering (Contd)

Selected Articles From the Russian
Periodical Tekstil' Prom.

- No 6, 1951, pp 25-27. CSIRO
Analysis of the Performance of
Pedal Feed Regulators, by
A. K. Kiselev.
- No 7, 1956, pp 32-34. CSIRO
Utilization of False Twist in
Intermediate Spinning Products,
by P. I. Aristov.
- Vol XVII, 1957, pp 22-26. CSIRO
Small-Size Carding Machine ChMM-450.
I, Description of the Construction,
by I. S. Shuleshko, E. A.
Kopelevich.
- May 1957, pp 30-35. JPRS 13561
Designing an Automatic Factory,
by V. G. Ivliyev, 13 pp.
- Selected Articles From the Russian
Periodical Teploenergetika.
- Vol VI, No 2, 1959. DSIR LLU-M-1885
An Investigation of the Critical
Rate of Stripping a Film of
Moisture From the Wall of a Steam
Pipeline, by M. A. Morozov.
- No 1, 1961, pp 18-22. NLL RTS 1956
Certain Experimental Data Regarding
the Hydraulics of Coil Elements With
Upward and Downward Flow of Two-
Phase Mixtures, by L. Yu. Krasyakova.

Scientific
Engineering (Contd)

Selected Articles From the Russian
Periodical Teploenergetika. (Contd)

No 6, 1961, pp 5-8.
Generalization of Experimental
Data on the Thermal Conductivity
of Steam, by N. B. Vargaftik,
A. A. Tarzimanov.

NLL RTS 1976

No 9, 1961, pp 65-68.
Calculation of Temperature Distril-
bution in Gas Turbine Disks Cooled
Through Erection Holes in the
Blade Root Joints, by Ye. I.
Molchanov.

*FTD-TT-62-794

No 1, 1962, pp 28-31.
Overlapping in a Shroud Ring
Turbine, by M. Ye. Deych,
A. G. Sheynkman.

*FTD-TT-62-736

Separation of Rhenium From Vanadium
and Tungsten by the Method of Ion
Exchange Chromatography, by
D. I. Ryabchikov, A. I. Lazarev, 19 pp.
RUSSIAN, per, Trudy Ak Nauk SSSR,
Komissii po Analiticheskoy Khim,
Vol VII, 1956, pp 64-76.

Dept of Commerce
Patent Off
Sci Lib

Research in Theory of Movement of
Particles in Modern Cyclic Accelerators,
by A. A. Kolomonskiy, 220 pp.
RUSSIAN, per, Trudy Fiz Inst imeni
P. N. Lebedeva, Akademiya Nauk SSSR,
Vol XIII, 1960, pp 3-129.

JPRS 13752

Theoretical Analysis of Methods Used
for Increasing the Effectiveness of
Cyclic Accelerators, by Ye. M. Moroz,
63 pp.
RUSSIAN, per, Trudy Fiz Inst imeni
P. N. Lebedeva, Akademiya Nauk SSSR,
Vol XIII, Chapters I, II, III, 1960,
pp 130-173.

JPRS 13752

Scientific
Engineering (Contd)

Selected Articles From the Russian
Periodical Trudy Tsentral Nauchno-
Issled Inst Geod Aeros 'zemki i
Kartografii, No 139, 1960 (NY-7110).

*JPRS

Requirements for Gravimetric
Surveying Connected With Processing
Astronomical-Geodetic and
Levelling Networks, by
L. P. Pellinen, (pp 3-20).

A Study of the Accuracy of the
Formulas of Stock and Vening-
Meinesz, by I. M. Tiron, (pp 21-44).

On the Present State of the Theory
of Studying the Shape of the
Earth's Physical Surface, by
M. I. Yurkina, et al, (pp 45-60).

On Errors in the Interpolation of
Gravity Anomalies and on the
Accuracy of Gravimetric Deflec-
tions of Plumb Lines, by
L. A. Govorova, (pp 77-81).

Errors in Calculations of Plumb
Line Deflection in a Uniform
Gravity Survey, by L. P. Pellinen,
(pp 83-88).

A Precise Method of Determining
the Periods of Oscillation of
Pendulums, by Yu. A. Slivin, et al,
(pp 89-102).

Scientific
Engineering (Contd)

Selected Articles From the Russian
Periodical Trudy Tsentral Nauchno-
Issled Inst Geod Aeros'zemki i
Kartografii, No 139, 1960, (NY-7110).

*JPRS

TsNIIGAiK Apparatus for Measuring
Angles and Accelerations of a
Pendulum Instrument While Making
Gravity Measurements at Sea, by
M. Ye. Kheyfets, (pp 103-120).

Quartz Field Chronometer Made by
the TsNIIGAiK Gravimetric Laboratory,
by L. A. Gerenburg, et al, (pp 121-134).

On the Use of Elastic Suspension for
Gravimetric Pendulums, by
M. Ye. Kheyfets, (pp 135-145).

Possibilities of Working Out Favourable
Ventilation Conditions by Means of an
Electric Analogue During an Under-
ground Mine Fire, by V. I. Voskoboinikov.
RUSSIAN, per, Ugol' Ukrainskii, Vol IV,
No 7, 1960, pp 16-20.

NLL N.3433

Instrument for Checking Condenser
Exploders, by A. Ya. Nekrasovskiy,
V. I. Starokol'tsev.
RUSSIAN, per, Ugol' Ukrainskii, Vol V,
No 5, 1961, p 34.

NLL M.3435

On the Problem of the Mechanism of
Rock Crushing With Short Time Delayed
Explosion, by M. Ch. An, 14 pp.
RUSSIAN, per, Vest Ak Nauk Kazakh SSR,
Vol XXIX, No 4, 1959, pp 90-94.

AEC UCRL Tr-743(L)

Prospects of Increasing the Capacity of
Hydrogenerators, by A. S. Eremeyev,
9 pp.
RUSSIAN, per, Vest Elektroprom, No 11,
1959, pp 4-8. 9099511

OTS 60-51135

Scientific
Engineering (Contd)

Semiconductor Power Rectifiers and
Conversion Devices Using Them,
by S. B. Yuditskiy, 14 pp.
RUSSIAN, per, Vest Elektroprom, No 2,
1961, pp 17-23.

JPRS 13698

Sealed Mercury Converters, by
T. A. Suyetin, 12 pp.
RUSSIAN, per, Vest Elektroprom, No 2,
1961, pp 23-29.

JPRS 13698

Conditions of the Evolution of
Magnetohydrodynamic Flows, by
R. V. Polovin, 9 pp.
RUSSIAN, per, Zhur Prik Mekh i Tekh
Fiz, No 6, 1961, pp 3-7. 9676722

FTD-TT-62-338

Hot Rolled Steel for Armoring Reinforced
Concrete Constructions.
RUSSIAN, GOST 5781-61, Approved 1 Jun
1961. to be Introduced 1 Jan 1962,
1956, pp 1-8.

ERDL, Ft Belvoir T-189

Screw Taps for Conical Threads.
RUSSIAN, GOST 6227-52, Approved in
Apr 1952, Republished May 1956,
1956, pp 1-5.

ERDL, Ft Belvoir T-189

Cold-Drawn Steel Wire of Periodic
Profile for Prestressed Steel-Reinforced
Concrete Structures.
RUSSIAN, GOST 8489-57, Approved in Jun
1957, Republished Jul 1959, 1956, pp 1-5.

ERDL, Ft Belvoir T-189

A Method of Determining the Amount of
Atmospheric Turbulence in Observations
of Astronomical Images by Means of a
Difference Image in a Two-Channel Optical
and Television System, by N. F. Kuprevich,
4 pp.
RUSSIAN, Patent No 131,101, (643171/26),
3 Nov 1959, 2 pp. 9676767

FTD MCL-1318/1

Scientific
Engineering (Contd)

A Liquid Rotor Gyroscope, by
V. V. Kastrov, V. M. Rogovoy.
RUSSIAN, Patent No 134,453, Application
No 649943/26.

*FTD-TT-62-761

A Method of Producing Interference-
Polarization Filters, by S. B. Ioffe,
N. M. Drichko, 5 pp.
RUSSIAN, Patent No 135,258 (663478),
16 Apr 1960, 2 pp. 9676725

FTD-TT-62-287

A Signal Indicator for Flameout in
the Combustion Chamber of a Turbojet,
by Yu. A. Gorin, 3 pp.
RUSSIAN, Patent No 135,309 (658619/25),
14 Mar 1960. 9676726

FTD-TT-62-288

A Gas Flowmeter for Measuring Gas Flow
Under Pressure, by G. P. Katys,
V. M. Il'inskiy, 3 pp.
RUSSIAN, Patent No 136,917 (676325/26),
11 Aug 1960, 2 pp. 9676723

FTD-TT-62-290

Centrifugal Pump With an Automatically
Controlled Head, by L. S. Arinyshkin,
V. I. Dumov, et al, 3 pp.
RUSSIAN, Patent No 137,767, 29 Oct 1960,
683765/25. 9676342

FTD-TT-62-194

Device for Measuring Velocity of Flow,
by B. P. Korop.
RUSSIAN, Patent No 139,087, Appl. No
661058/26, 2 Apr 1960, 2 pp.

*FTD-TT-62-778

Sensing Device for Mass Output of
Liquids or Gases, by Yu. I. Ivlichev,
E. A. Ismiyev.
RUSSIAN, Patent No 139,098, Appl No
680315/26, 27 Sep 1960.

*FTD-TT-62-779

Method of Increasing the Plasticity of
Alloys of Palladium With a High Content
of Wolfram, by V. S. Mes'kin,
L. A. Popova, et al.
RUSSIAN, Patent No 139,450, Appl No
675014/22, 30 Jul 1960.

*FTD-TT-62-780

Scientific
Engineering (Contd)

A Device for Automatic Regulations of Concentration of Atomized Powdered Substances, by M. I. Abdurakhmanov, G. S. Baturov.
RUSSIAN, Patent No 140,262, Application No 675232/31.

*FTD-TT-62-757

A Method of Measuring the Electronic Frequency Drift of Pulsed Magnetrons, by G. L. Sobolev, 3 pp.
RUSSIAN, Patent No 140,501, 24 Nov 1958. 9676529

FTD-TT-62-11

A Method for Automatic Optimization of Automatic Control Systems and a Device Therefor, by S. A. Dagnovskiy.
RUSSIAN, Patent No 141,682, Application No 690269/26.

*FTD-TT-62-760

Gas Fuel Cell, Parts I and II, by Li Hsien-fa.
CHINESE, per, Ju-han Ta-hsueh, Tsu-jan K'o-hsueh Hsueh-pao, No 5, 1959, pp 1-22.

*FTD-TT-62-502

First Honorary and Meritorious Members of the Association of Mechanical and Electro-Technical Engineers and Technicians of Yugoslavia, 7 pp.
CROATIAN, per, Tehnika, Vol XVII, No 2, 1962, pp 290-292.

JPRS 13719

Temperature Dependence of Scintillation Counters, by Jiri Skrivanek, Marie Vesela.
CZECH, per, Ceskoslovensky Casopis pro Fysiku, Vol Xa, 1960, pp 312-315.

*AEC

Scientific
Engineering (Contd)

Flaws and Defects in Railway Tyres
and Some Possible Methods of Their
Prevention, by T. Myslivec, S. Horejs.
CZECH, per, Hutnicke Listy, Vol XI,
No 1, 1956, pp 1-9.

NLL M.4316

Cast High-Temperature Alloys for Gas
Turbine Blades, by M. Vystyd,
J. Vodsedalek, D. Suchomel.
CZECH, per, Slevarenstvi, No 4, 1960,
pp 111-114.

*FTD-TT-62-789

Thermodynamic Characteristics of Gas
Turbines With Blades Cooled by Air,
by Z. Bayer.
CZECH, per, Strojirenstvi, Vol XI,
No 10, 1961, pp 723-730.

*FTD-TT-62-788

The Quality Assessment of Rolled
Thin and Thick Oxygen-Steel Plate, by
G. de Witte.
DUTCH, per, Metalen, Vol XVI,
28 Feb 1961, pp 56-63.

BISI 2547

Some Examples of the Use of the
Potentiostat in Study on the Behaviour
of Metals in Liquid Media, by
Ph. Berge, P. A. Jacquet.
FRENCH, rpt, Colloquium on Corrosion
of Steel, pp 175-184.

*BISI 2774

Generators With Streams of Electrified
Particles, by Marcel Pauthenier, 15 pp.
FRENCH, per, Centre National de la
Recherche Scientifiques, 1961.

FRL-TN-41

Periodicity Test. Generalization of
the Schuster Test in the Case of Temporal
Auto-Correlated Series, by Maurice Allais,
5 pp.
FRENCH, per, Comptes Rendus, Vol CCXLIV,
No 20, 1957, pp 2469-2471.

AEC SCL-T-388

Scientific
Engineering (Contd)

Research Into the Use of Germanium
for the Fabrication of Magnetic
Sheets, by C. Decroly, V. Rixhon.
FRENCH, per, Memoires Scientifique de
la Revue Metallurgie, 1961.

*BISI 2786

Selected Articles From the French
Periodical Revue de Metallurgie.

Vol LVIII, No 2, 1961.
Study of the Refractory Properties
of Blast Furnace Slags by Means
of Spherical Specimens, by R. Zoja,
(pp 131-136).

BISI 2702

Contribution to the Knowledge of
the Phenomena During the
Annealing of Cold Rolled Mild
Steel for Deep Drawing, by
G. Odono, V. Berroti,
(pp 165-176).

*BISI 2719

Vol LVIII, No 10, 1961, pp 849-856.
Pneumatic Tubes in Steelworks,
by J. Gouyou-Beauchamps.

BISI 2653

Vol LVIII, No 11, Sep 1961,
pp 723-734.
The Principal Uses of Blast
Furnaces Slag, by G. Delbart.

BISI 2615

Generator of Heat or Infrared Waves,
by Rene Hunault, 5 pp.
FRENCH, First Addition Patent No 69,149,
(To 1,128,613).

Dept of Commerce
Patent Off
Sci Lib

Stereoscopic Binoculars, by Antonin Pect,
3 pp.
FRENCH, Patent No 363,020.

Dept of Commerce
Patent Off
Sci Lib

Gas Turbine, by H. Saunier, M. Picon,
S. Canteau, 8 pp.
FRENCH, Patent No 547,539.

Dept of Commerce
Patent Off
Sci Lib

Scientific
Engineering (Contd)

Improvement in Motor Vehicle Bumpers,
and Bumpers Thus Improved, by
Jules-Camille Masse, 4 pp.
FRENCH, Patent No 724,467.

Dept of Commerce
Patent Off
Sci Lib

Improvements in Rigid Gaskets, by
Pierre Poncet, 9 pp.
FRENCH, Patent No 1,105,990.

Dept of Commerce
Patent Off
Sci Lib

Luminous Material and Its Process
of Manufacture, by K. W. Lange, 21 pp.
FRENCH, Patent No 1,133,803. 9099879

AEC NP Tr-866

Propellant Fluid for Starting Internal
Combustion Engines, 17 pp.
FRENCH, Patent No 1,232,050.

Dept of Commerce
Patent Off
Sci Lib

Improved Electrotechnical Machines,
by Jacques Henry Beudot, 8 pp.
FRENCH, Patent No 1,234,294, 1960,
7 pp.

ACSI I-1199
ID 2196090

Scientific
Engineering (Contd)

Fundamentals of Construction and Application of Interferometers, by K. Steegmaier, 52 pp.
GERMAN, 1943.

AEC NP Tr-862

NZV Regulator. Instructions for Installation and Operation, 23 pp.
GERMAN, bk, Anleitung fuer Einbau und Bedienung, Apr 1958.

AEC Tr-5015

Gauging of Roll Force and Torque in Hot Rolling and Calculation of Ductility, by W. Dahl, E. Wildschutz, J. Langer.
GERMAN, per, Archiv fuer Eisenhuttenwesen, Vol XXII, No 4, 1961, pp 213-219.

*BISI 2782

New Hydraulic Method of Remote Measurement for Mechanical Stresses and Pressures, by Franc Glotzl.
GERMAN, per, Archiv fuer Technisches Messen, 1958.

CSIRO

Modern Method for the Determination and Evaluation of Fuel Consumption, by G. Kirbitsky.
GERMAN, per, Automobiltechnische Zeitschrift, Vol LIV, No 10, 1952, pp 226-228.

CSIRO

Selected Articles From the German Periodical Berg und Huttenmannische Monatshefte.

Vol C, No 7/8, 1954, pp 225-229.
New Methods for the Examination of Gases in Steels, by W. Koch.

CSIRO

Scientific
Engineering (Contd)

Selected Articles From the German
Periodical Berg und Huttenmannische
Monatshefte. (contd)

- Vol CVI, No 9, 1961
Experience With 120-ton Arc
Furnaces of the Huttenwerk
Rheinhausen Plant, by
K. Pungartnik. (pp 286-299.) BISI 2624
- Arc Furnaces - Lining Problems as
Seen by the Brick Maker, by
F. Honig. (pp 307-310.) BISI 2625
- Lining Problems in Arc Furnaces,
by K. Leitner. (pp 311-315.) BISI 2626
- Lining Problems in Arc Furnaces,
by A. Schoberl. (pp 315-317.) BISI 2627
- Lining Problems in Arc Furnaces,
by F. Schmidt. (pp 318-322.) BISI 2628
- Lining Problems in Arc Furnaces,
by W. Schlager. (pp 322-327.) BISI 2629
- The Use of Oxygen in the Arc
Furnace, by M. Petz. (pp 336-341.) BISI 2630
- The Mechanical-Thermal Behaviour of
Refractory Materials, by W. Spath.
GERMAN, per, Berichte der Deutschen
Keramischen Gesellschaft, Oct 1961,
pp 451-457. BISI 2599
- Effect of Frost on the Grout of
Prestressed Tendons, by A. Rohnisch.
GERMAN, per, Beton und Stahlbetonbau,
Vol L, No 2, 1955. ASLIB GB 70/4288

Scientific
Engineering (Contd)

Technical Review. A Novel Bucket
Wheel Excavator, by Fr. Riedig,
6 pp.
GERMAN, per, Braunkohle, No 15,
1941, pp 173-175.

Dept of Commerce
Patent Off
Sci Lib

Pirna Ol4.
GERMAN, per, Deutsche Flugtechnik,
No 2, 1960, pp 36-37.

*FTD-TT-62-781

Dire-Carrying Capacity of Various
Layers of the Filter Mediums of the
0.2 My-Candle, by R. Sinha.
GERMAN, per, Faudi Feinbau, Vol II,
No 10, 1960, pp 1-6.

*FTD-TT- 62-535

New Investigations on Space-Heating
Stoves and Household Ranges. by
W. Schule.
GERMAN, per, Gesundheits-Ingenieur,
Vol LXXIV, No 3/4, 1953, pp 36-40.

CSIRO

Present Development Trends in Shell
Moulding, by M. Klemmer.
GERMAN, per, Die Giesserei, Vol XLIX,
No 7, 1962, pp 162-164.

*HB 5597

Mathematical-Statistical Examinations
of the Problem of the Dependence
of the Service Life of Centrifugal
Casting Moulds on the Casting
Frequency, by H. Buhler, W. Schreiber,
R. Schaeffer.
GERMAN, per, Giesserei Technisch-
Wissenschaftliche Beihefte, Jul 1958,
pp 1137-1139.

BISI 2716

The New Bar-, Profile- and Wire-
Rolling Mill of the Bohler Bros.
& Co.A.G. in Kapfenberg.
GERMAN, per, Maschinenwelt und
Elektrotechnik, Vol XVI, No 3,
1961, pp 121-122.

BISI 2596

Scientific
Engineering (Contd)

Non-Destructive Testing of
Tubes, Limitations of the
Methods and Interpretations of
Test Results, by H. Krachter.
GERMAN, per, Materialprufung,
Vol II, 20 Jul 1960, pp 253-257.

BISI 2619

A New Machine for Torsion Impact
Testing, and the Torsion Impact
Strength of a Tool Steel in
Dependence on the Tempering
Temperature, by J. Salokangas.
GERMAN, per, Materialprufung,
Vol III, No 12, 1961, pp 437-440.

BISI 2664

Thread Tensions During Twisting
II, by F. Fourne.
GERMAN, per, Melliand Textilberichte,
1957, pp 602-605.

CSIRO

What Reactions Cause Frothing of
Slag in the Basic Open-Hearth
(Process), by K. Fellcht.
GERMAN, per, Metallurgie, Vol V,
Mar 1955, pp 85-102.

BISI 2537

Contribution to Improved Combustion
in Ante-Chamber Diesel Engines, by
F. Nagas, Kakimoto.
GERMAN, per, Motortechnische Z.,
Vol XVIII, 1957, pp 301-306.

CSIRO

The Equipment of Long-Distance
Carrier-Current Communications
With Transistor Amplifiers, by
H. Krause.
GERMAN, per, Nachrichtentechnik,
No 2, 1962, pp 54-59.

*ACSI I-1374-A
ID 2198525

Scientific
Engineering (Contd)

The Problem of Interference of
Broadcast Transmitters With Symmetrical
Carrier-Current Cables, by H. G.
Prenzlow.

GERMAN, per, Nachrichtentechnik,
No 2, 1962, pp 60-63.

*ACSI I-1374-B
ID 2198525

Short-Distance Carrier-Current
Television Transmission Using
Coaxial Cables, by B. Precht.
GERMAN, per, Nachrichtentechnik,
No 2, 1962, pp 64-67.

*ACSI I-1374-C
ID 2198525

An Apparatus for the Direct
Transformation of Thermal Energy
to Electrical Energy, by W. Bloss,
6 pp.

GERMAN, per, Naturwissenschaften,
Vol XLVIII, 1961, pp 497-498.

AEC Tr-5048

Selected Articles From the German
Periodical Neue Hutte.

Vol VI, 1961, pp 81-87.
The Use of Slit Strip in
Milled and Rimming Steel
Quality for the Manufacture of
Longitudinal Seam Welded
Tubes, by K. Edelmann.

BISI 2670

Vol VI, Feb 1961, pp 87-91.
Studies of a Pilger Tube
Cold-Rolling Mill, by W. Jakel,
H. Neumann, W. Hofmann.

BISI 2671

Vol VI, Mar 1961, pp 157-166
Measurement of E.M.F. Between
Slag and Steel Bath and Its
Application to Open-Hearth
Process Control, by K. L.
Kiesel.

BISI 2616

Scientific
Engineering (Contd)

Selected Articles From the German
Periodical Neue Hutte. (contd)

- Vol VI, Aug 1961, pp 500-506. BISI 2711
Hydration of Sintered Dolomite
in Superheated Water Vapour as
an Accurate and Rapid Method
on Investigation, by W. Mannchen,
W. Schulle.
- Vol VI, Sep 1961, pp 565-572. BISI 2608
Electro-Slag Remelting, by
W. Richling.
- Feb 1962, pp 111-123. *BISI 2788
Examination of the As-Cast
Structure of Heavy Forging
Ingots, by K. L. Kiesel,
K. Skuin, O. Liebscher, et al.
- Miniaturization Work in Powder
Technology, by P. P. Budnikow,
M. I. Nerkitsch.
GERMAN, per, Silikatt Technik,
Vol XII, No 10, 1961, pp 452-457. *FTD-TT-62-487
- Modern Speed Frame, by Ingolstadt.
GERMAN, per, Spinner und Weber,
No 11, 1958, pp 660-662. CSIRO
- Resistance of Ceramical Fragments
to Thermal Stressing From the
Point of View of the Theory of a
Regular Cooling System, by M. Ristic.
GERMAN, per, Sprechsaal, No 5,
1959, pp 107-109. CSIRO

Scientific
Engineering (Contd)

Selected Articles From the German
Periodical Stahl und Eisen.

- Vol LXXX, 14 Apr 1960, pp 483-491.
Experience With the Deposit Welding
of Steel Rolls of Blooming-Slabbing
Rolling Mills by the Submerged Arc
Process, by H. Stoll. BISI 1831
- Vol LXXXI, 11 May 1961, pp 676-684.
Toughness Studies on High-Speed
Tool Steels, by S. Wilmes. BISI 2591
- Vol LXXXI, No 15, 1961, pp 1001-1005.
Dust Removal From Electric Arc
Furnaces, by A. Hohenberger. HB 5218
- Vol LXXXI, 31 Aug 1961.
The Forging Programme of a Large
Integrated Steelworks and the Layout
of the Forging Plant Required to
Carry It Out, by K. Kupper,
H. Oehler, (pp 1172-1179.) BISI 2561
- The Influence of Material and
Internal Stresses on the Life of
Steel Ingot Moulds, by W. von Gerkan,
(pp 1192-1202.) BISI 2453
- Vol LXXXI, No 21, 1961, pp 1381-1388.
Ten Years of Oxygen-Steam Blowing,
by H. Neuhaus, H. Kosmider, P. E.
Hardt. HB 5277
- Vol LXXXI, Nov 1961.
The Use of Different Grades of Lime
in Open Hearth Steelmaking, by K. H.
Obst, W. Kohler, E. Meier-Cortes,
et al. (pp 1503-1510.) *BISI 2803

Scientific
Engineering (Contd)

Selected Articles From the German
Periodical Stahl und Eisen. (contd)

- Vol LXXXI, Nov 1961.
Examination of the Operation of
a Hot Strip Mill With a Steckel-
Type Reversing Stand, by P. Funke,
W. Lueg, (pp 1510-1519.) BISI 2577
- Analysis of the Behaviour of
Synthetic Resin Composition
Bearings Working in a 700 mm
Three-High Billet and Sheet
Mill, by Ernst Wenger, (pp 1519-1526.) BISI 2578
- The Behaviour of Synthetic
Resin Bonded Fabric Bearings
With Plain and Split Half Lining
in Comparison With Plain Metal
Bearings, by L. Mikulla,
(pp 1527-1529.) BISI 2579
- Planning a Semi-Continuous Wide
Hot Strip Mill, and Experience
Gained During Its Operation, by
H. Wladika, (pp 1599-1609.) BISI 2580
- Conclusions From an Investigation
Into a Two Stand Hot Wide Strip
Mill With a Steckel Finishing
Stand, by P. Funke, W. Lueg,
(pp 1610-1618.) BISI 2581
- Analysis of Electrical Operating
Tests on a Tandem Cold Rolling
Mill, by W. Nurnberg, (pp 1618-1632.) BISI 2582
- Experiences With German Blast
Furnace Gas Turbines, by
H. Mohring, H. Heilig, (pp 1691-1693.) BISI 2648

Scientific
Engineering (Contd)

Selected Articles From the German
Periodical Stahl und Eisen. (contd)

- Vol LXXXII, No 25, 1961, pp 1739-1745. HB 5434
The Removal of Scale in Shot
Blasting, by P. U. Schmithals.
- Vol LXXXII, 21 Dec 1961. BISI 2620
Contribution to the Kinetics of
Converter Processes, by H. Knuppel,
T. Kootz, F. Oeters, (pp 1804-1809.)
- Gas Turbines vs. Synchro-Motors
for Producing Blast for Iron and
Steel Works, by W. Wittwer,
(pp 1816-1820.) BISI 2649
- Vol LXXXIII, No 5, 1962, pp 261-268. *HB 5598
Oxygen Plants at Steelworks, by
M. Seidel.
- Vol LXXXIII, 15 Mar 1962, pp 313-337. *BISI 2761
Experiences and New Findings Gained
in the Operation of a High-Speed
Cold-Rolling Tandem Mill, by
J. Billigmann, J. Lenze.
- Express Roads in Berlin: Planning,
Design and Early Stages of Construc-
tion, by R. Schwedler.
GERMAN, per, Symposium of the
Forschungsbesellschaft fuer das
Strassenwesen, 1956. CSIRO
- The Dependence of Shrinkage and
Warping of the Welding Sequence, by
W. Anders, 20 pp.
GERMAN, per, Die Technik, Vol V,
No 9, 1950, pp 460-466.
9099894 AEC Tr-5020

**Scientific
Engineering (Contd)**

**Selected Articles From the German
Periodical Textil-Proxis.**

CSIRO

Vol XI, No 8, 1956, pp 771-778.
Ring and Ring Travellers;
Determination of Thread Tension
in the Spinning and Winding
Zones of Ring Spinning and
Ring Doubling Machines, by
H. Stein.

Vol XI, No 10, 1956.
Modernizing the Opening
Machinery in a Cotton
Spinning Mill, by L. Visscher,
(pp 967-973.)

Development of the Roller
Bearing Spindle, by W.
Stahlecker, H. Stahlecker,
(pp 981-983.)

Vol XII, No 2, 1957, pp 314-319.
Spinning Without Flyers, by
W. Frenzel.

**Selected Articles From the German
Periodical Vereins Deutscher
Ingenieure Z.**

Vol LXXII, No 2, 1928, pp 51-56.
Stiffening Effect of Turbine
Discs on the Deflection of the
Rotor, by B. Eck.

CSIRO

Vol LXXVIII, 1934, pp 187-189.
Coefficients of Standard Nozzles
and Crifice Plates Installed at
Inlet and Outlet of Pipes, by
E. Stach.

CSIRO

Scientific
Engineering (Contd)

Selected Articles From the German
Periodical Vereins Deutscher
Ingenieure Z. (contd)

- Vol XCVII, No 10, 1955, pp 305-308. CSIRO
Formation of Lubricating Films,
Power Loss and Limits of Damage
in the Case of Gear Wheels With
Involute Tooth System, by G.
Niemann.
- Vol XCIX, No 6, 1957, pp 231-237. CSIRO
Measurement of Dynamic Processes
in Gears, by R. Thiel.
- Vol XCIII, No 35, 11 Dec 1961,
pp 1098-1100. BISI 2715
Centrifugal Casting, by P. A. Heller.
- Model Considerations on the Conveying
and Heating of the Material in the
Rotary Kiln, by W. Anselm, E. Schawarz-
Bergkampf.
- GERMAN, per, Zement-Kalk-Gips, No 5,
1954, pp 101-104. CSIRO
- Gauge Interferometer for Measuring
Differences of Slip Gauges, by M. Duhmke.
GERMAN, per, Z. fuer Instrumentenkunde,
Vol LXV, No 1, 1957, pp 15-17. CSIRO
- Present Status of Rolling of Metal
Powders, by H. Franssen, N. Franssen.
GERMAN, per, Z. fuer Metallkunde,
Vol LIII, No 2, 1962, pp 78-89. *HB 5596
- The Hall Generator With Feedback Control,
by H. Weiss.
GERMAN, per, Z. fuer Naturforschung,
XI(a), No 9, 1956, pp 684-688. CSIRO

Scientific
Engineering (Contd)

Techniques of Snow Clearance on
Roads and Railway Tracks and
Airfields, by K. Croce.

GERMAN, per, Z. des Oesterreichischen
Ingenieur und Architektenvereins,
Vol XCIX, No 17/18, 1954,
pp 185-190.

CSIRO

New Precision Volumeter, by
L. A. Rotinyants.

GERMAN, per, Z. fuer Physikalische
Chemie, Vol XX, 1946, pp 1049-1051.

CSIRO

Increase of Sensitivity of Infrared-
sensitized Plates Through Temperature
Increase During Exposure, by Otto
Bartelt, 13 pp.

GERMAN, per, Z fuer Wissenschaft
Photographie, Photophysik und
Photochemie, Vol XXX, No 9, Nov 1931,
pp 261-271. TR I Z48)

Dept of Commerce
Patent Off
Sci Lib

Drilling Device, by Aug Hofbauer,
3 pp.

GERMAN, Patent No 367,569.

Dept of Commerce
Patent Off
Sci Lib

Self-Discharging Device, 4 pp.
GERMAN, Patent No 475,867.

Dept of Commerce
Patent Off
Sci Lib

Process for Cutting Edging Grooves
In Rolls, 5 pp.
GERMAN, Patent No 552,204.

Dept of Commerce
Patent Off
Sci Lib

Writing Measurement Device With a
Rectilinearly Displaceable Writing
Carriage, 10 pp.
GERMAN, Patent No 633,527.

Dept of Commerce
Patent Off
Sci Lib

Scientific
Engineering (Contd)

Manifolding Pad, by Bernhard Hollensett, 5 pp.
GERMAN, Patent No 648,890.

Dept of Commerce
Patent Off
Sci Lib

Device for the Loosening of Cold Drawn Tubes From the Mandrel by Means of a Plurality of Rolls, Preferably Two Pairs of Rolls, by Max Schunk, 7 pp.
GERMAN, Patent No 704,757.

Dept of Commerce
Patent Off
Sci Lib

Current Transformer With a Premagnetization Winding, 6 pp.
GERMAN, Patent No 878,530,
(Addition to 750,915).

Dept of Commerce
Patent Off
Sci Lib

Collector for Electrical Machines, by Bernhard Saenger, 5 pp.
GERMAN, Patent No 1,013,000,
1 Aug 1957.

AEC Tr-4947

Directional Microphone, by Werner Holle, Paul-Friedrich Warning, 6 pp.
GERMAN, Patent, No 1,014,595.

Dept of Commerce
Patent Office
Sci Lib

Driving Member, e.g., Conveyor Belt, Consisting of Elastic Material Capable of Being Cast or Molded by Injection and Containing Imbedded Reinforcements, by Walter Niclas, 5 pp.
GERMAN, Patent No 1,047,545.

Dept of Commerce
Patent Off
Sci Lib

Testing of Soft Elastic Foamed Materials, Dynamic Test.
GERMAN, Specification DIN 53,574,
Draft Jan 1957.

CSIRO

Water Research in Mongolia, by Csath Bela, (NY-7120)
HUNGARIAN, per, Banyassati Lapok, Vol XCV, No 1, 1962, pp 54-59.

*JPRS

Scientific
Engineering (Contd)

Second General Assembly of the
Photogrammetry Society of East
Germany, by Joszef Favary, 12 pp.
HUNGARIAN, per, Geodezia es
Kartografia, Vol XIV, No 1, 1962,
pp 50-52.

JPRS 13215

Photogrammetry Conference in
Hungary, 5 pp.
HUNGARIAN, per, Geodezia es
Kartografia, Vol XIV, No 1,
1962, p 62.

JPRS 13215

Clay Props and Their Accessories,
3 pp.
HUNGARIAN, Patent No 17,964.

Dept of Commerce
Patent Office
Sci Lib

Steam Ejectors and Ladle
Degassing for Heavy forgings, by
T. Messing, O. Motta.
ITALIAN, Paper Presented at the
Conference on Heavy forgings,
Terni, Sep 1961.

BISI 2513

Discrimination Among Elementary
Particles in Scintillation
Counters, by E. Gatti, 7 pp.
ITALIAN, per, Rendus Seminar Mat
Fis Milano, Vol XXXI, 1960, pp 3-8.

AEC TT-984

Dismountable Lamellar Metallic
Filter for Mine, Oil, and
General Chemical Industry,
4 pp.
ITALIAN, Patent No 433,260.

Dept of Commerce
Patent Off
Sci Lib

Scientific
Engineering (Contd)

Construction Work of Ise-Wan
Beacon Light, by Sakuji Nagasaki.
JAPANESE, per, Doboku-Gakkai-Shi,
Vol XLVI, No 3, 1961, pp 5-10.

ERDL, Ft Belvoir T-1579

Radiation Monitor and Measurement,
by J. Moriuchi, 5 pp.
JAPANESE, per, Japan Atomic Energy
Research Inst, Report No. JAERI-
5002(2), 1960.

AEC NP Tr-815

Some Theoretical Consideration on
the Irregularity of Drafting, by
K. Mihira.
JAPANESE, per, Journal of Textile
Machinery Society of Japan,
Apr 1956.

CSIRO

Studies on Twisted Yarns, by
T. Manabe.
JAPANESE, per, Journal Textile
Machinery Society of Japan,
Vol II, No 1, 1956, pp 10-19.

CSIRO

Mechanical Capped Steel for Hot
Rolled Sheet, by Y. Mitarashi,
H. Fujimaki.
JAPANESE, per, Tetsu to Hagane,
Vol XLVI, Sep 1960, pp 1259-1261.

*BISI 2780

On the Prevention of Cracks in Low
Carbon Rimmed Strip Mill Slabs, by
T. Tsukamoto, Y. Nagata, L. Tanaka.
JAPANESE, per, Tetsu to Hagane,
Vol XLVI, Sep 1960, pp 1259-1261.

*BISI 2779

Specifications and Overloading, by
B. Akre, 13 pp.
NORWEGIAN, per, Norsk Vegtidskrift,
Cslo, Norway, 1961, pp 182-186,
Call No TE4, N 86, 1961, No 10.

Army Map Service

Scientific
Engineering (Contd)

Priming or Combustible Fluid
for Internal Comb. or Diesel
Engines Intended to be Expelled
From a Pressurized Container by
A Propellant Gas, 10 pp.
NORWEGIAN, Patent No 98,287.

Dept of Commerce
Patent Off
Sci Lib

The Load Carrying Capacity of
Orthotropic Shells, by Z. Mroz.
POLISH, per, Archiwum Mechaniki
Stosowanej, Vol XII, No 1, 1960,
pp 85-106.

*FTD-TT-62-783

Position of Driver in Cab.
POLISH, per, Motor, 1961, p 1.

*ACSI I-1296
ID 2196119

Analysis of Possibilities of
Utilizing the Gyroscopic Effect
of Orbital Motion of Elementary
Particles for Measuring Angular
Velocity, by Andrezej Bialecki,
21 pp.
POLISH, per, Pomiary Automatyka,
Kontrola, No 10, 1960, pp 386-391.
9676766

FTD-TT-61-23

Control of Two Parameter Process,
by S. Wegrzyn.
POLISH, per, Pomiary Automatyka,
Kontrola, No 1, 1961, pp 5-7.

*FTD-TT-62-784

Studies on Hydrocyclones (Principles
of Operation, Design and Application),
by Andrzej Battaglia, 52 pp.
POLISH, per, Prace Głównego
Instytutu Górnictwa, No 144, 1953,
pp 1-23.

OTS 60-21264
PL-480

**Scientific
Engineering (Contd)**

Technology of Greases at the Present Time, by Artur Wilski,
6 pp.
POLISH, per, Przeglad Techniczny,
No 52, 1960, pp 5. 9676333

FTD-TT-61-296

The Carrier Telephony System TN 12/24K, by Stefan Jankowski.
POLISH, per, Przeglad Telekomunikacyjny,
No 7, 1961, pp 207-212.

*ACSI I-1377
ID 2198528

Celebration, General Assembly, and Conference Commemorating the Tenth Anniversary of the Society for Welding Techniques of Slovenia in Maribor, 10 pp.
SLOVENIAN, per, Varilna Tehnika, Vol X, No 3, Oct/Dec 1961, pp 65-68.

JPRS 13720

Effect of Contact Detonation on Granite Slabs, by K. B. Broberg,
52 pp.
SWEDISH, rpt, Report No. 109,
Aug 1960.

AEC Tr-5026

Nomogram for Calculating Attenuation of Air Shock Waves in Tunnels, by Siwert Eriksson, 17 pp.
SWEDISH, rpt, Report No 103,
14 Apr 1961.

AEC Tr-5025

Chromium Plated Motor Cylinders,
by J. Van De Horst.
SWEDISH, per, Teknisk Tidskrift, Vol LXXX, 1950, pp 359-364.

CSIRO

Scientific
Engineering (Contd)

Spiked Tire Tread, by J. G. A.
Rengefors, 4 pp.
SWEDISH, Patent No 83,057.

Dept of Commerce
Patent Off
Sci Lib

Methods for Detecting Periodic
Features in Variable Products
Such as Cross-section Mass in
Textiles, by A. G. Zellweger.
SWISS, Patent 30,068.

CSIRO

Vibrations of a Rotating Disk of
Constant Thickness With Vanes, by
A. P. Filippov.
UKRAINIAN, per, Prik Mekh Inst
Mekh Ak Nauk URSR, Vol VII, No 6,
1961, pp 601-608.

*FTD-TT-62-737

Eternal Energy, by O. Danilov,
(NY-7088).
UKRAINIAN, per, Ukraina, No 24,
Dec 1961, pp 17-18.

*JPRS

Scientific
Fuels

Thermophysical Properties of Certain
Aviation Fuels in the Liquid and
Gaseous State, by Ye. V. Latynin, 201 pp.
RUSSIAN, bk, Teplofizicheskiye Svoystva
Nekotorykh Aviatsionnykh Topliv v
Zhidkom i Gazoobraznom Sostoyani,
Vol CXXXII, 1961, 161 pp. 9676549-V

FTD-TT-61-81

The Carcinogenic Properties of Exhaust
Gas Soot of Motor Transport, by
B. P. Gurinov, V. N. Tugarinova, 7 pp.
RUSSIAN, per, Gig i San, Vol XXVII,
No 2, 1962, pp 19-24.

JPRS 13691

Grinding of Coal for Coking, by
V. Charvat, B. Kedron.
CZECH, per, Paliva, Vol XXXVIII,
1958, pp 234-237.

Broken Hill Prop Co Ltd
(CRL/T.679)

The Determination of Moisture Content
in Solid Fuels, Fischer's Method, by
V. Tyman.
CZECH, per, Prace Ustavu Vyzkum a
Využití Paliv, No 10, 1959,
pp 293-303.

Dept of Interior
TN7 E57 No 482

New Method of Direct Determination
of Oxygen Applied Especially to
Coals, by R. Wildenstein.
FRENCH, per, Chaleur et Ind, Vol XXXII,
No 315, 1951, pp 293-298.

Broken Hill Prop Co Ltd
(CRL/T.138)

Factors of Coke Graphitization, by
S. Durif.
GERMAN, per, Brennstoff-Chemie,
Vol XXXVII, No 23/24, 1956,
pp 402-404.

CSIRO 3649

A New Method for the Investigation
and Description of the Softening
Behaviour of Coals, by H. Ritter,
G. Juranek.
GERMAN, per, Brennstoff-Chemie,
Vol XLI, No 6, 1960, pp 170-176.

Broken Hill Prop Co Ltd
(CRL/T.661)

Scientific
Fuels (Contd)

Investigations on the Reactivity and
Compression Strength of Coke as a
Function of the Coke Structure, by
E. Terres, W. Raven.

GERMAN, per, Gas- und Wasserfach,
Vol C, No 39, 1959, pp 993-1001.

Broken Hill Prop Co Ltd
(CRL/T.662)

Sampling Techniques for Industrial Gases
and Especially Coke-Over Gases, by
P. Michaelis.

GERMAN, per, Gluckauf, Vol XCII, 1956,
pp 264-271.

CSIRO

Studies on Oxygen Groups in Bituminous
Coal, by Andrzej Ihnatowicz, 57 pp.

POLISH, per, Prace Glownego Instytutu
Gornictwa, No 125, 1952, pp 1-39.

OTS 60-21272
PL-480

Gasification of Heavy Oils to Synthesis
Gas, by F. Weinrotter.

UNKNOWN, World Power Conference 5th
Vienna, Report 2 E/1, 1956.

CSIRO

Scientific
Geophysics

Radiowave Propagation in the Ionosphere,
by Y. Alpert.
RUSSIAN, bk, 1960.

*CB

Questions on Stability of Slopes, by
Popov, Kotlov.
RUSSIAN, bk, 1961.

*CB

Organic Matter in Black Sea Sediment
Waters, by N. G. Starikova, 40 pp.
RUSSIAN, bk, The Criteria of Diagenesis
(Symposium Volume), 1959.

MEB

Short-Term Forecasts of Ice Formation
and Break-up in Rivers, by E. G. Popov.
RUSSIAN, bk, Gidrologicheskiye Prognozy,
Chapter 11, 1957, pp 391-426.

*Navy/HO 160

Forecasting the Geopotential Field in
the Lower Stratosphere, by A. S. Dubov,
13 pp.
RUSSIAN, rpt, Materialy Konferentsii
Koordinatsionnoy Komissii Vychislitel'nikh
Methodov Prognoza, 1961, pp 55-62.

JPRS 13734

Numerical Wind Forecast in the Free
Atmosphere by Means of Electronic
Digital Computers, by A. I. Romov,
25 pp.
RUSSIAN, rpt, Materialy Konferentsii
Koordinatsionnoy Komissii Vychislitel'nikh
Methodov Prognoza, 1961, pp 71-87.

JPRS 13734

Methods for Study of the External
Gravitational Field and Figure of
the Earth, by M. S. Molodenskiy,
V. F. Eremeyev, 248 pp.
RUSSIAN, bk, Metod Izucheniya Vneshnego
Gravitatsionnogo Polya i Figury Zemli,
1960.

OTS 61-31207
PL-480

Gravimetric Investigations at Sea,
232 pp.
RUSSIAN, bk, Morskiye Gravimetriceskiye
Issledovaniya, No 1, 1961, pp 3-112.

JPRS 13726

Scientific
Geophysics (Contd)

Science and Winning the Arctic Region,
by Ya. Ya. Gakkel, 237 pp.
RUSSIAN, bk, Nauka i Osvoyeniye Arktiki,
1957, pp 1-133. 967472-V

FTD F-TS 9993/V

Gravimetric Apparatus - Development of
the GAK-6M Precision Gravimeter, by
K. Ye. Veselov, (DC-6848).
RUSSIAN, bk, Sostoyaniye i Perspektivy
Razvitiya Razvedochnoy Geofiziki, 1961,
pp 410-413.

*JPRS

The Use of a New Type of Filter "Mikrofil"
for the Concentration and Recovery of
Bacteria, by V. V. Vlodavets,
Ye. Yu. Zuykova, 7 pp.
RUSSIAN, per, Gig i San, Vol XXVII,
No 3, 1962, pp 51-55.

JPRS 13741

The Status of Geophysical Research in
Kazakhstan, by V. V. Brodovoy,
M. D. Morozov, (SF-2256).
RUSSIAN, per, Iz Ak Nauk Kazakhskoy SSR,
Ser Geolog, No 4, Oct-Dec 1960, pp 37-52.

*JPRS

Topographic and Soil Maps of the United
States, by K. A. Salishchev, 4 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, No 1,
1961, pp 138-140, (Call No G23 A34).

Army Map Service

New Method for Detailed Geological-
Survey Work, by A. G. Yezashvili,
(DC-6847).
RUSSIAN, per, Iz Ak Nauk Turkmeneskoy
SSR, Ser Fiz Tekh Khim i Geolog Nauk,
No 1, 1961, pp 117, 118.

*JPRS

**Scientific
Geophysics (Contd)**

**Selected Articles From the Russian
Periodical Met i Gid.**

No 1, 1959.

Subsurface Runoff and Variations in
Annual Runoff, by N. P. Chebotarev,
7 pp, (pp 37-40). 9099505

OTS 60-21878
PL-480

Forecast of the Water Inflow Into
the Reservoir of the Volga Hydro-
electric Power Plant Imeni Lenin,
From Discharge Relations and
Intermediate Inflow, by

V. I. Sapozhnikov, E. S. G. Grechko,
7 pp, (pp 40-44). 9099506

OTS 60-51008
PL-480

No 11, 1960, pp 46-48. 9676979
American Investigations of the
Physical Properties of Sea Ice, by
Yu. V. Istoshin, 6 pp.

Amer Meteorol Soc T-R-388

No 2, 1962.

Some Means of Modifying Climate,
by M. I. Budyko, 13 pp, (pp 3-8).

JPRS 13654

Formation and Changes in Macrovortices
in the Atmosphere, by Vl. Sharov,
11 pp, (pp 9-15).

Main Features of the Radiation Regime
of the Glacial Cover in Franz-Josef
Land, by V. A. Markin, 13 pp.
(pp 23-27).

Universal Formula for Estimating
Global Radiation, by M. S. Averkiyev,
9 pp, (pp 27-30).

Hydrometeorological Study of Mountain
Regions, by I. A. Il'in, 6 pp,
(pp 46, 47).

Scientific
Geophysics (Contd)

Selected Articles From the Russian
Periodical Met i Gid. (Contd)

No 2, 1962.
Physics of Clouds, by A. M. Borovikov,
I. I. Gayvoronskiy, et al, 6 pp,
(pp 62,63).

JPRS 13654

Literature on Meteorology, Hydrology and
Oceanography in 1961, 15 pp, (pp 64-67).

Third Session of the Commission On
Aerology of the World Meteorological
Organization, by K. T. Logvinov,
A. Kh. Khrgian, 8 pp, (pp 69-71).

No 3, 1962, pp 61-64.
Literature on Meteorology, Hydrology
and Oceanography in 1961, 23 pp.

JPRS 13806

No 4, 1962, (DC-6853).
On the Complex Method of Forecasting,
by N. A. Bagrov, (pp 14-21).

*JPRS

On the Problem of Artificial Modifica-
tion of Frontal Cloud Systems in
Mountain Regions, by I. V. But,
(pp 46, 47).

Transactions of the Scientific Research
Institutions of the Hydrometeorological
Service in 1961, (pp 66-70).

Final Session of the Scientific Council
of the Central Institute of Forecasting,
by L. M. Margolin, (pp 71, 72).

Final Session of the Scientific Council
of the Main Geophysical Observatory
imeni A. I. Voevodskiy, by Ye. A.
Polyakova, (pp 72, 73).

Final Session of the Scientific Council
of the Central Aerological Observatory,
by G. L. Belyayeva, (p 73).

**Scientific
Geophysics (Contd)**

On the Motion of the Sikhote-Alinskoto Meteor In the Atmosphere, by V. G. Resenkov.
RUSSIAN, per, Meteoritika, Vol IX, 1951.

*RAND

Selected Articles From the Russian Periodical Trudy Glav Geofiz Obser imeni A. I. Vayeykova.

No 93, 1959, pp 70-80. (DC-6801)
Universal Electrophotometer, by
V. I. Myukhkyurya.

*JPRS

No 111, 1961. (DC-6832)
On the Principles of Rational Distribution
of the Meteorological Stations of a Network,
by L. S. Gandin, (p 81).

*JPRS

Heliogeophysical Connections During Various
Forms of Atmospheric Circulation, by T. V.
Pokrovskaya, N. L. Spitsina, (p 118).

The Question of the Reliability and the
Practical Application of the Sinoptico-
Climatological Method of Long-Range
Gydrometeorological Forecasting, by
L. A. Vitel's, (p 136).

Experience in the Analysis of the Pro-
gnostic Connection With an Accounting
For Solar Activity, by L. A. Vitel's,
(p 153).

Method for Calculation of the Deep Sea
Currents From the Surface Current and the
Gradient of the Atmospheric Pressure, by
A. I. Fel'zenbaum, L. F. Fomin, et al, 21 pp.
RUSSIAN, per, Trudy Inst Okean Ak Nauk SSSR,
Vol XXV, 1957, pp 153-170. 9099502

OTS 60-11407
PL-480

Scientific
Geophysics (Contd)

Biostratigraphical Subdivision of the Upper Cambrian in the Soviet Arctic, by K. K. Demokidov.

RUSSIAN, per, Trudy Nauchno-Issled Inst Geol Arktiki, Ministerstva Geol i Okhrany Nedr SSR, Vol III, 1960, pp 3-9.

Dept of Interior
QE3 E57 No 75

Upper Cambrian Trilobites From Salair (Tolstochikhinskaya Formation), by A. V. Rozova.

RUSSIAN, per, Trudy Sibirek Geol i Geofiz, Vol V, 1960, pp 7-12, 49-52, 61-70, 80-90.

Dept of Interior
QE3 E57 No 74

Investigation Conducted at the Central Aerological Observatory on Artificial Modification of Clouds and Fog, by I. I. Gaivoronskiy.
RUSSIAN, per, Trudy Tsentral' Aeroilogicheskoi Observatorii, Vol XXVI, 1959, pp 39-55.

ERDL, Ft Belvoir T-1581

The Scheme for a Numerical Forecast of Wind and Geopotential in the Lower Half of the Troposphere, by A. I. Burtsev, (DC-6800).

RUSSIAN, per, Trudy Tsentral Inst Prognozov, No 110, 1961, pp 32-41.

*JPRS

Calculation of Cyclonic Movement by Initial Pressure Fields and Wind, by A. I. Burtsev, N. G. Leonov, (DC-6800).

RUSSIAN, per, Trudy Tsentral Inst Prognozov, No 110, 1961, pp 42-50.

*JPRS

Horizontal Wind Divergence and Its Role in the Variation of Intensities of Surface Cyclones and Anticyclones, by O. V. Gayevskaya, (DC-6800).

RUSSIAN, per, Trudy Tsentral Inst Prognozov, No 110, 1961, pp 70-76.

*JPRS

Rational Utilization of Flow of the River ILI, by N. S. Kalachev, 21 pp.

RUSSIAN, per, Vest Ak Nauk Kazakh SSR, Vol XV, No 3, 1959, pp 24-31.

ABC UCRL Tr-744(L)

Scientific
Geophysics (Contd)

A More Accurate Method for the Computation
of Global Radiation, by M. S. Averkiyev,
(DC-6843).

RUSSIAN, per, Vest Mosk Univ, Ser V. Geograf,
No 1, 1961, pp 40-47.

*JPRS

Selected Translations From Ti-Chih Hsueh-Pao
(Acta Geologica Sinica), (DC-6809).

CHINESE, per, Ti-chih Hsueh-pao (Acta Geologica
Sinica), Vol XL, No 1, Feb 60, pp 7C-119.

*JPRS

Giant Globes, by O. Kudrnovska, 6 pp.

CZECH, per, Dejepis a Zemeris re Skole,
Vol II, No 5, 1960, pp 143-144, (CALL NO
DB191 D32).

Army Map Service

Investigations by the Association for Waste-
land Reclamation, by N. J. Dahl, 4 pp.
DANISH, per, Hedeselskabets Tidsskrift,
Vol LXXXII, No 16, 1961, pp 359-362,
(CALL NO. S11 H45).

Army Map Service

Certain Seismological Data From the Yahue
Volcano On the Island of Tanna (N.H.) by
Blot and Tazieff, 7 pp.

FRENCH, per, Academie Royale des Sciences
d'Outre Mer, Bulletin, 1961/1962, pp 270-275,
(CALL NO. EIF 383194).

Army Map Service

Urban Climate, by P. Albert Kratzer.

GERMAN, rpt, Die Wissenschaft. Erzeldarstellungen
aus der Naturwissenschaft und der Technik,
Vol XC, 1956,

*AFCRL Res Lib

(Aeronomic) Measurements Deduced From the
Deformations of Six Alkaline-Metal Vapor
Clouds, Formed by Rockets in the High
Atmosphere, by Jacques-Emile Blamont,
Jeanne-Marie Baguette.

GERMAN, per, Ann Geophys, Vol XVII, 1961,
pp 319-337.

AEC SCL-T-400

Scientific
Geophysics (Contd)

The Irrigation of Marchfeld, by Fritz Kopf,
15 pp.
GERMAN, per, Oesterreichische Wanerwirtscheft,
Vol XIV, No 1, 1962, 6 pp, (CALL NO. TC 1 029).

Army Map Service

The Study of Sediment Movement in Rivers and
Seas With the Aid of Luminescent Dyes and
Radio-Active Isotopes, by Nikolaj Ajbulatov,
Vadim Boldyrev, Helmut Griesseier, 30 pp.
GERMAN, per, Petermann's Geographische
Mittheilungen, No 3, 1961, pp 177-186,
(CALL NO. G1, P47).

Army Map Service

Investigation of the Representativeness of
a Microclimate Station, by Z. Dobosi.
HUNGARIAN, per, Annales Universitatis Scien-
tiarum Budapestinensis de Rolando Eotvos
Nominatae - Sectio Geologica - Tomus III.
Tankonyvkiado, 1960.

ERDL, Ft Belvoir T-1580

Scabbing in Rock Tunnels, by K. B. Broberg,
18 pp.
SWEDISH, paper, Utslotning i Bergtunnlar,
2 Feb 1961. 9098094

RAND RM-2998-PR

**Scientific
Mathematics**

Mathematical Basis of Geographical Maps,
by K. A. Salishchev, A. V. Gedymin, 111 pp.
RUSSIAN, book, Kartografiya, 1955, pp 3-193.

JPRS 13758

Cybernetic Accelerator, by A. Mints, 10 pp.
RUSSIAN, np, Izvestiya, 24 Apr 1962, p 6.

JPRS 13770

Mathematics for the Natural Economy, by
S. Yefimov, (DC-6802).
RUSSIAN, per, Nauka i Zhizn, No 2, 1962,
pp 20-24.

*JPRS

Lectures on Integral Geometrie, by Wilhelm
Blaschke.
GERMAN, bk, Vorlesungen Uber Integralgeo-
metric, Vol I, II, 1949.

*AFCRL Res Lib

Scientific
Medicine

The Influence of Radioactive Strontium on
the Living Organism, by N. A. Krayevskiy.
RUSSIAN, Encl 1 to 25-62 to USNA, Helsinki,
26 Jan 1962.

Dept of Navy
ONI 5141509

Biopotentials of Cerebral Hemispheres With
Brain Tumors, by N. P. Bekhtereva.
RUSSIAN, bk, 1960.

*CB

Principles of Pediatric Traumatology,
by N. G. Dam'e.
RUSSIAN, bk, 1960.

*CB

The Afferent Innervation of the Heart,
by A. Ya. Khabarova.
RUSSIAN, bk, Afferentiya Innervatsiya
Serdtza, 1961.

*CB

Oligophrenia - Mental Retardation in
Children, by M. S. Pevaner.
RUSSIAN, bk, Dety-Oligophreny.

CB

Study of the Comparative Radiosensitivity
of Different Parts of the Brain in Terms of
Changes in Their Functions, by G. E. Abdullin.
RUSSIAN, rpt, Effects of Ionizing Radiation
on the Nervous System, Proceedings of a
Symposium, Vienna, 5-9 June 1961, pp 397-408.

*AEC

Role of the Nervous System in the Changes
of "Metabolic Reactivity" of the Irradiated
Organism, by L. Novak, A. Vatsek,
M. Pospishil.
RUSSIAN, rpt, Effect of Ionizing Radiation
on the Nervous System, Proceedings of a
Symposium, Vienna, 5-9 June 1961, pp 449-459.

*AEC

Miniature Radiotelemetry Equipment for
Recording Physiological Functions, by
L. P. Shuvatov.
RUSSIAN, bk, Elektronika v Meditsine,
Gosenergoizdat, 1960, pp 177-182.

*FTD-TT-62-804-A

Scientific
Medicine (Contd)

Isotope Methods of Analyzing a Living Organism, by N. A. Gabelova.
RUSSIAN, bk, Elektronika v Meditsine,
Gosenergoizdat, 1960, pp 338-347.

*FTD-TT-62-804-B

Resuscitation of the Organism and Artificial Hypothermia, by V. A. Negovskiy.
RUSSIAN, bk, Oshivlenie Organisma i Iskusstvennaya Gipoterapiya, 1960.

*CB

Natural Focalization and the Epidemiology of the Particularly Dangerous Infectious Diseases, by V. N. Pastukhov, et al., 211 pp.
RUSSIAN, bk, Prirodnaya Ochagovost' i Epidemiologiya Osche Opasnykh Infektsionnykh Zabolevaniy, 1959, pp 5-17, 40-96, 108-116, 181-187, 337-371, 437-451, 502-513, 545-563.

JPRS 13629

Selected Articles From the Russian Book Psikhologicheskaya Nauka v SSSR, Vol I, 1959.

JPRS 11466

The Reflex Bases of Perception, by Ye. N. Sokolov, 34 pp.

Time Perception, by D. G. El'kin, 18 pp.

The Principle of Determinism and the Psychological Theory of Thinking, by S. L. Rubinshteyn, 57 pp.

Studies on the Problem of the Speech Mechanisms of Thinking, by A. N. Sokolov, 35 pp.

The Contribution of Soviet Psychological Science to the Theory of Sensation, by B. G. Anan'yev, 15 pp.

Orientation in Space, by F. N. Shemyakin, 70 pp.

The Development of Memory, by A. A. Smirnov, 75 pp.

**Scientific
Medicine (Contd)**

Selected Articles From the Russian Book
Psichologicheskaya Nauka v SSSR, Vol I,
1959, (Contd)

JPRS 11466

On Ways of Studying Speech Mechanism,
by N. I. Zhinkin, 24 pp.

The Historical Approach to the Study of
the Psyche of Man, by A. N. Leont'yev,
46 pp. Forward, 6 pp.

Research on Perception, by P. A. Shevarev,
38 pp.

Problems of the Psychology of Memory, by
P. I. Zinchenko, 54 pp.

The Development of Investigations on the
Formation of Mental Operations, by P. Ya.
Gal'perin, 37 pp.

Problem of Conditioned Reflex Mechanisms of
Higher Mental Processes, by Ye. I. Boyko,
26 pp.

Certain Physiological Regularities and
Mechanisms of Visual Sensations and
Perceptions, by Ye. N. Semenovskaya, 45 pp.

Basic Problems of the Psychology of
Attention, by N. F. Dobrynin, 18 pp.

Problems of the Psychology of Thinking, by
G. S. Kostyuk, 130 pp.

Speech Development and the Formation of
Mental Processes, by A. R. Luriya, 84 pp.

Handbook of Pharmacology, Volume I, II, by
Editor N. V. Lazarev, (SF-2246).
RUSSIAN, bk, Rukovodstvo po Farmakologii, I,
1961, Vol I - pp 2-5, 607-611; Vol II - pp 501-504. *JPRS

**Scientific
Medicine (Contd)**

**Selected Articles From the Russian Book
Vsesoyuznyi Institut Eksperimental'noi
Veterinarii, 1957.**

**OTS 60-51055
PL-480**

**The Study of Phosphorus Metabolism in
Dairy Cows and Calves Using Labeled
Atoms, by A. I. Vertunov, 10 pp.**

**The Characteristics of the Conditioned
Reflex to Aromatic Stimuli in Cattle,
by N. I. Lozhkin, 11 pp.**

**The Biophysical Interpretation of Elec-
trocardiograms in Cattle, by B. S.
Nikol'skiy, 15 pp.**

**The Biochemistry of the Blood of Cattle
Suffering From Foot-and-Mouth Disease,
by A. G. Malakhov, 6 pp.**

**The Dynamics of the Protein and Protein
Fractions of Blood Serum From Guinea
Pigs Suffering From Experimentally-
Induced Foot-and-Mouth Disease, by A. G.
Malakhov, 6 pp.**

**The Elaboration and Comparative Evaluation
of Measures for Combating Flies in Animal
Breeding Farms, by N. S. Balyberdin, 9 pp.**

**The Epizooiology of Listerellosis in Hogs,
by V. I. Popov, 11 pp.**

**Investigations Into Serological Diagnosis
of Listerellosis in Hogs, by M. I.
Yashenkina, 12 pp.**

**The Prophylaxis and Treatment of Gastro-
intestinal Diseases in Newborn Lambs, by
I. F. Avramenko, 6 pp.**

Scientific
Medicine (Contd)

Selected Articles From the Russian Book
Vsesoyuznyi Institut Eksperimental'noi
Veterinarii, 1957. (Contd)

OTS 60-51055
PL-480

The Etiology of Gastrointestinal Diseases
in Newborn Lambs, by I. F. Avramenko, 10 pp.

An Experiment on the Air-Borne Infection of
Some Animal Species With Listerellosis, by
V. I. Popov, 11 pp.

The Adaptation of the Swine Fever Virus to
the Organism of Young Rabbits, by A. K.
Kvasnikov, 8 pp.

The Study of Filterable Forms of Brucella
(Strain No 19), by V. A. Sergeyev, 11 pp.

A Study of the Microflora Accompanying
Trichomoniasis in Cattle, by E. M.
Makhinya, 8 pp.

An Experiment on the Application of the
Antivirus From Cultures of B. coli commune, or
Chicken Blood Serum Immune to Trichomonas
for the Therapy of Trichomoniasis in Cows,
by E. M. Makhinya, 7 pp.

On the Differential Diagnosis of Trichomonas
Foetus Riedmuller 1928, From Other Protozoa,
by V. V. Petrovskiy, 3 pp.

Experimental Data on the Effect of Antibiotics
on Certain Manifestations of Acute Radiation
Pathology, by Ye. G. Dolgov, 9 pp.
RUSSIAN, per, Antibiotiki, Vol VI, No 5, 1961,
pp 402-406. 9676732

FTD-TT-62-144

On Some Results and the Direction of
Scientific Research in the Field of Pharmacy,
(NY-7096).
RUSSIAN, per, Aptekhnaya Delo, Vol XI, No 1,
1962, pp 3-11.

*JPRS

Scientific
Medicine (Contd)

Atherosclerosis as Reflected in the Autopsy
Data of Petrozavodsk, by V. A. Samsonov, 10 pp.
RUSSIAN, per, Arkhiv Patolog, Vol XXIV, No 2,
1962, pp 37-42.

JPRS 13640

Selected Articles From the Russian Periodical
Azerbaydzhan Med Zhur.

No 10, 1961, pp 78-83.
All-Union Scientific Conference of
Pharmacists, 12 pp.

JPRS 13607

No 1, 1962, pp 17-20.
Modified Dry Sterile Thrombin of the
Azerbaydzhan Institute for Blood Trans-
fusion and Its Employment, in E.N.T.
Clinics, by M. M. Abdullayev, O. M.
Guseynov, 6 pp.

JPRS 13646

No 2, 1962, pp 67-71. (NY-7077)
Preparation of a Dry Leukocyte Mass and a
Study of Its Activity Experimentally, by
M. E. Mirzoyeva.

*JPRS

No 3, 1962, pp 16-23. (NY-7118)
The Effect of the Pentagynous Hawthorne on
the Bioelectric Activity of the Cerebral
Cortex of Rabbits, by D. Ya. Guseynov.

*JPRS

Post-Traumatic Degeneration and Regeneration
of Synapses After the Effect of Ionizing
Radiation, by V. P. Babmendra, 9 pp.
RUSSIAN, per, Byul Eksper Biol i Med, No 1,
1962, pp 112-117. 9676776

FTD-TT-62-362

The Effect of Breathing Pure Oxygen on the
Lungs and Heart of White Rats, by I. S.
Balakhovskiy, A. R. Mansurov, V. I. Yazdovskiy.
RUSSIAN, per, Byul Eksper Biol i Med, No 2, 1962,
pp 43-47.

*FTD-TT-62-772

Scientific
Medicine (Contd)

On the Status and Problems of the Development
of Scientific Research on Physiotherapy in the
Public Health Establishments of the RSFSR, by
A. N. Obrosov, (NY-7098).

RUSSIAN, per, Byul Uchenogo Meditsinskogo Soveta,
Vol II, No 5, 1961, pp 16-20.

*JPRS

The Important Question of the Problem of
Acclimatization of Man in the North, by G. A.
Orlov, A. P. Tyukina, (NY-7098).

RUSSIAN, per, Byul Uchenogo Meditsinskogo
Soveta, Vol II, No 5, 1961, pp 21-24.

*JPRS

The Importance of Fat Reserves of the Cell
for Its Reactivation After Radiation Injury,
by V. M. Alekseyeva, M. N. Meysel', (NY-7072).
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXLII,
No 3, 1962, pp 699-701.

*JPRS

Relative Biological Efficiency (OBE) of 660
Mev Protons, by E. B. Kuryandskaya, G. A.
Avrunina, et al, (NY-7072).

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXLII,
No 3, 1962, pp 702-705.

*JPRS

Reduction of the Degree of Injury of the DNA
Molecule by the Action of Irradiation in the
Presence of Propylgallate, by N. V. Nikolayev,
K. Ye. Kruglyakova, et al, (NY-7072).

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXLII,
No 3, 1962, pp 713-715.

*JPRS

Selected Articles From the Russian Periodical
Ekspер Khir i Anesteziolog.

No 1, 1962.

Cybernetics in Medicine Probability
Logic in Setting Up an Autodidactic
Diagnostic Process in Mathematical
Machines, by M. L. Bykhovskiy, A. V.
Vishnevskiy, 19 pp, (pp 3-11).

JPRS 13581

**Scientific
Medicine (Contd)**

**Selected Articles From the Russian Periodical
Eksper Khir i Anesteziolog. (Contd)**

Nc 1, 1962.

A New Source of Obtaining Extra Blood
for Hemotransfusions, by M. I. Dolgina,
Yu. M. Panova, S. Sh. Kharinas, et al, 3 pp,
(pp 41, 42).

JPRS 13728

Importance of the Local Lymphatic System
for the Development of Transplantation
Immunity and for Its Overcoming, by Ya.
Vrubel, 5 pp, (pp 50-53).

JPRS 13728

The Use of Trypsin-Treated Cells of
Embryonic Skin for the Replacement of
Skin Defects in Rabbits Under Experimental
Conditions, by V. I. Marchenko, S. P.
Ushakova, 7 pp, (pp 55-58).

JPRS 13728

Phagocytic Activity of Leucocytes at
Various Phases of Burn Disease, by Yu.
M. Panova, 5 pp, (pp 59-61).

JPRS 13728

Vol VII, No 2, 1962. (DC-6824).
On the Forms of Regeneration Reaction, by
D. S. Sarkisov, (pp 3-8).

*JPRS

Cybernetics in Surgery, the Method of
Phase Interval in the Problem of
Diagnostics, by M. L. Bykhovskiy,
(pp 16-19).

The Role of Neuroplegic Substances in the
Prevention of "Tourniquet" Shock (According
to Electronencephalographic Data), by N. P.
Bekhtereva, F. M. Danovich, (pp 66-70).

The Effect of Plasma Substitutes on Capillary
Circulation During Burn Shock, by K. F. Dogayeva,
(pp 94, 95).

**Scientific
Medicine (Contd)**

Summary Reports on the All-Union and All-Russian Conferences for the Control of Tuberculosis, by V. F. Chernyshev,
5 pp.
RUSSIAN, per, Fel'dsher i Akusherka,
No 10, 1961, pp 3-6.

JPRS 13841

Change in the Origination Dynamics of Visual Analyzer Electrical Reactions in Hypoxide, by Mei-Lei.
RUSSIAN, per, Fiziol Zhur SSSR, Vol XLVIII, No 1, 1962, pp 11-15.

*FTD-TT-62-769

Changes in the Electrical Activity of Different Brain Regions in Cats and Dogs Caused by Carbon Dioxide, by Yu. N. Ivanov.
RUSSIAN, per, Fiziol Zhur SSSR, imeni I. M. Sechenova, Vol XLVIII, No 3, 1962, pp 279-289.

*FTD-TT-62-773

Selected Articles From the Russian Periodical Gig i San.

Vol XAVI, No 12, 1961, pp 47-50.
An Electronic Instrument for Determining the Speed of Reflex Reactions in Several Subject Simultaneously, by A. F. Aksyuk, S. A. Poltorak, A. P. Levko, 10 pp.

JPRS 13592

Vol XXVII, No 2, 1962, pp 67-71.
Sanitary-Hygienic Requirements of Centers and Storehouses of Radioactive Isotopes, by A. V. Terman, I. P. Korenkov, 7 pp.

JPRS 13691

Vol XXVII, No 3, 1962, (SF-2249).
On the Problem of Radioactivity of Water in Open Reservoirs, by V. M. Kupriyanova, Ye. S. Romanova, (pp 14-17).

*JPRS

On the Stability of Adaptation (On Deadaptation), by B. B. Koyranskiy, (pp 22-28).

Scientific
Medicine (Contd)

Selected Articles From the Russian Periodical
Gig i San. (Contd)

Vol XXVII, No 3, 1962, (SF-2249). *JPRS

The Experience of Applying Some Physiological Methods of Research for Hygienic Evaluation of the Agricultural Labor of School Children, by I. D. Dubinskaya, V. K. Kuz'mina, (pp 28-33).

Change in the Chemical Indices of Alimentary Fats Under the Action of Ionizing Radiation, by A. A. Fomin, (pp 34-39).

Experience With Rationalization of Sport Clothes for Ski Racers, by A. A. Minkh, Yu. V. Vadkovskaya, A. A. Mironova, (pp 40-45).

Some Results of the Study of the Activity of Small Doses of Ultraviolet Radiation on the Defense-Adaptation Functions of the Organism, by M. L. Koshkin, (pp 70-76).

Hygienic Problems During the Study of the Effect of an Increased Natural Radioactive Background of the Environment on the Health of the Population, by Yu. V. Novikov, I. I. Rezanov, (pp 76-84).

Hygienic Appraisal of Conditions of Work and the Effectiveness of Protective Measures During Induction Heating of Metal With the Aid of High Frequency Lamp Generators, by K. V. Nikonova, P. P. Fukalova, (NY-7102). RUSSIAN, per, Gig Truda i Professional Zabol, Vol VI, No 3, 1962, pp 8-13. *JPRS

Scientific
Medicine (Contd)

Selected Articles From the Russian
Periodical Iz Ak Nauk SSSR, Ser Biol,
No 1, 1962.

JPRS 13562

The Effect of Explosive Decompression
on the Organism, by V. I. Yazdovskiy,
A. R. Mansurov, N. A. Agadzhanyan, 9 pp,
(pp 84-89).

Animal Tolerance of High G Force Acting
Along a Line Close to the Longitudinal
Axis of the Body, by Ye. M. Yukanov,
I. I. Kas'yan, 8 pp, (pp 90-94).

Electroretinogram of Irradiated Eye and
Induction of the Cornea, by V. V. Popov,
A. I. Farberov, 6 pp, (pp 102-105).

The Distribution of CO₆₀ and Some
Radioisotope Fission Products Among
the Components of Experimental Bodies
Of Water, by I. O. Bogatyrev, 8 pp,
(pp 122-126).

Congresses, Conferences and Meeting of
the First International Biochemical
Congress, 20 pp, (pp 141-150).

Physico-Physiological Study of the High-
Frequency Ballistocardiogram of a Healthy
Person, by Ye. B. Babskiy, V. L. Karpman,
et al, (NY-7106).

RUSSIAN, per, Kardiologiya, Vol II, No 1,
1962, pp 44-52.

*JPRS

On the Method of Dynamic Vectocardiographic
Investigation, by M. L. Medvedev, (NY-7106).
RUSSIAN, per, Kardiologiya, Vol II, No 1,
1962, pp 89-92.

*JPRS

Starvation Therapy (A Preliminary Report),
by A. N. Bakulev, R. S. Kolesnikova, 10 pp.
RUSSIAN, per, Klin Med, Vol XL, No 2, 1962,
pp 14-20.

JPRS 13678

Scientific
Medicine (Contd)

Burn Sickness, (Clinical Aspects, Pathogenesis, Treatment Principles), by T. Ya. Ar'yev, 18 pp.

RUSSIAN, per, Klin Med, Vol XL, No 3, 1962, pp 7-19.

JPRS 13796

Use of a Stereoscopic Microscope for Bacterial Examination, by V. V. Vlodavets. RUSSIAN, per, Lab Delo, No 1, 1958, pp 45, 46.

*ACSI I-1368
ID 2198519

Preparation of the Blood Substitute Poly-Glucin by the Method of Controlled Synthesis, by T. V. Polushina, V. Ya. Chernyak, 8 pp. RUSSIAN, per, Med Prom, No 2, 1962.

JPRS 13772

Betatron Equipment for Medical Purposes, by V. I. Gorbunov, (NY-7101).

RUSSIAN, per, Med Prom, Vol XVI, No 3, 1962, pp 55-57.

*JPRS

Scientific
Medicine (Contd)

Selected Articles From the Russian
Periodical Med Rabot.

- 9 Feb 1962, p 2. JPRS 13751
The 16th Session of the General
Meeting of the Academy of Medical
Sciences USSR, 6 pp.
- 23 Feb 1962, p 2. JPRS 13751
On the Results of the All-Union Con-
ference of Surgeons, Traumatologists,
and Anesthesiologists, by G. Zaytsev,
V. Golovanov, 5 pp.
- No 24, 23 Mar 1962, p 3. JPRS 13736
Psychopharmacology and Modern
Psychiatry, by A. Snezhnevskiy,
3 pp.
- No 29 (2089), 10 Apr 1962, p 4.
(NY-7095) *JPRS
Original Direction in the Study of
the Brain, by A. Kogan.

Selected Articles From the Russian
Periodical Med Radiolog.

- Vol VII, No 1, 1962, pp 16-21. JPRS 13644
Study of Certain Aspects of the
Pathogenesis of Radiation Injuries
of the Skin, by A. V. Kozlova,
V. S. Zayrat'vants, 8 pp.
- Vol VII, No 4, 1962, (NY-7107). *JPRS
Clinical-Morphological Comparisons
in the Surgical Method of Treating
Radiation Injuries, by Ye. D. Savchenko,
N. N. Garvey, et al, (pp 47-53).

Scientific
Medicine (Contd)

Selected Articles From the Russian
Periodical Med Radiolog. (Contd)

Vol VII, No 4, 1962, (NY-7107). *JPRS
Clinical Studies of Protein and
Protein Fractions of Blood Plasma
in People Having Prolonged Contact
With Ionizing Radiation, by
O. I. Kudryashova, (pp 54-57).

On the Biological Interaction of Roentgen
and Infrared Rays, by G. A. Mallabiu,
(pp 64-66).

Functional Changes in the Medullary
Layer of the Adrenals During the
Action of Internal Irradiation on
the Organism, by V. I. Kandror,
(pp 71-75).

Design Characteristics of Installations
for Medical Linear Accelerators, by
S. L. Kanevskiy, (pp 85-89).

The Wealth of the State Central Scientific
Medical Library to the Service of
Health Protection of the Workers of the
Uzbek Republic, by N. T. Kovalenko, 3 pp.
RUSSIAN, per, Med Zhur Uzbek, No 3,
1962, pp 73, 74. JPRS 13746

Certain Essential Problems Relative to
Liver Pathology, by I. K. Musabayev,
T. I. Metskan, 4 pp.
RUSSIAN, per, Med Zhur Uzbek, No 3,
1962, pp 73-77. JPRS 13746

Apparatus for Telerecording of Human
Electrocardiograms, by T. Ye. Timofeyeva,
V. A. Antselevich.
RUSSIAN, per, Novosti Med Tekh, No 3,
1960, pp 27-41. *FTD-TT-62-803

Scientific
Medicine (Contd)

Remote Analysis of Sportsmen's Electro-
cardiograms, by V. V. Matov.

RUSSIAN, per, Novosti Med Tekh, No 3,
1960, pp 42-45.

*FTD-TT-62-803

Alterations in Basal Metabolism in Oncol-
ogical Patients Undergoing Surgery With
Different Types of Inhalation Anesthesia,
by Ya. A. Rudayev, 4 pp.

RUSSIAN, per, Novyy Khir Arkh, Vol II
(242), No 2, 1962, pp 24-27.

JPRS 13681

Selected Articles From the Russian
Periodical Patolog Fiz i Eksper
Terapiya, Vol VI, No 1, Jan/Feb 1962.

JPRS 13573

The Effect of General Chilling and
Hibernation on the Restoration of
Vital Functions of Animals Subjects
to Clinical Death Resulting From
Acute Blood Loss, by V. I. Soboleva,
8 pp, (pp 28-33).

The Problem of the Mechanism of Change
in Hematopoiesis in Thermal Burns,
by V. S. Barkaya, 10 pp, (pp 37-42).

State of Nonspecifically Increased
Resistance in Animals From Muscular
Training and Training With the
Simultaneous Administration of Dibazole,
by V. Ya. Ruzin, 7 pp, (pp 49-53).

New Possibilities of Increasing Heat
Resistance of the Body in the Light of
Experimental Data, by F. T. Agarkov,
7 pp, (pp 70-73).

Secretory Function of the Pancreas
in Radiation Sickness, by
K. V. Shirmov, H. F. Nesterin,
6 pp, (pp 73-76).

Scientific
Medicine (Contd)

Selected Articles From the Russian
Periodical Patolog Fiz i Eksper
Terapiya, Vol VI, No 1, Jan/Feb 1962.
(Contd).

JPRS 13573

Characteristics of the Reactivity
and Resistance to Additional In-
fluences During Different Periods
of Burn Sickness, by Ye. V. Gubler,
V. M. Pinchuk, 10 pp, (pp 77-82).

Hydrophilic Skin Tests in Experi-
mental Hyperergic Inflammation in
Rabbits, by M. Ye. Agrinskiy, 3 pp,
(pp 83, 84).

Electrophoretic Study of Burn Antisera,
by M. Z. Rudnitskaya, S. V. Skurkovich,
3 pp, (pp 84, 85).

The Third Congress of Pediatricians of
the Ukrainian SSR, 4 pp.
RUSSIAN, per, Pediatriya, No 2, 1962,
pp 94, 95.

JPRS 13751

The Effectiveness of the Use of Low-
Molecular Polyvinylpyrrolidone in the
Treatment of Acute Gastro-Intestinal
Diseases in Young Children, by
Ye. V. Abramova, A. A. From, (SF-2239).
RUSSIAN, per, Pediatriya, Vol XLI, No 4,
1962, pp 35-39.

*JPRS

Paradoxes of Adaptation, by V. L. Ryzhkov,
12 pp.
RUSSIAN, per, Priroda, Vol LI, No 2,
1962, pp 33-39.

JPRS 13563

The Effect of Adrenocorticotropic Hor-
mone (Acth) on the Clinical Course of
Acute Radiation Sickness in Hypophysec-
tomized Rats, by A. A. Grafov, 12 pp.
RUSSIAN, per, Problemy Endokrinologii i
Germonoterapii, Vol VIII, No 2, 1962,
pp 57-64.

JPRS 13821

Scientific
Medicine (Contd)

Scientific Conference of the Tuberculosis Specialists of Georgia, by L. S. Kartoziya, 8 pp.
RUSSIAN, per, Problemy Tuberkuleza, No 1, 1962, pp 122-125.

JPRS 13751

Problems of Soviet Anthropology in the Light of the Decisions of the XXII Congress CPSU, 15 pp.
RUSSIAN, per, Sovet Etnografiya, No 1, 1962, pp 3-7.

JPRS 13805

Selected Articles From the Russian Periodical Sovet Meditsina.

Vol XXV, No 3, 1962, (DC-6823).
Some Aspects of the Geographic Distribution of Hereditary Diseases of Man, by N. P. Sokolov, (pp 3-8).

*JPRS

On the Treatment of Some Diseases of Soft Tissues Joints and Spinal Column With the Preparation Biliarin - Bile, Medically Preserved, by M. N. Livshits, V. P. Voronina, (pp 113-115).

Aralia - a New Stimulating and Tonic Agent, by B. T. Komissarenko, (pp 115-117).

Vol XXV, No 4, 1962, (SF-2255).
On the Content of C-Reactive Protein in the Blood of Children Affected With Rheumatism, by A. M. Smirnova, Zh. Zh. Rapoport, (pp 53-56).

*JPRS

Ultrasound Treatment of Patients Suffering From Chronic Urticaria, by Ya. V. Pankova, (pp 126-128).

Scientific
Medicine (Contd)

Selected Articles From the Russian
Periodical Sovet Zdravookhraneniye,
Vol XXI, No 3, 1962, (NY-7073).

*JPRS

Some Results of a Thorough Study
of Morbidity of the Adult Population
in Makeyevka, by M. G. Garina,
(pp 34-39).

The Death-Rate in the Vorontsovskiy
Rayon for 1950-1958, by I. G. Zyazin,
(pp 43-46).

Notes on the Significance of Social
Conditions in the Problem of Longe-
vity, by A. N. Sverchkov, (pp 47, 48).

Longevity Among the Population of
Eastern Siberia, by Ya. M. Grushko,
(pp 48-51).

The Bio-Currents of the Brain and Thought,
by N. Dzhavadyan, 4 pp.
RUSSIAN, per, Tekh Molodezhi, No 2,
1961. 9676532

FTD-TT-62-163

It Is Necessary to Experiment, by
O. Adrianov, 3 pp.
RUSSIAN, per, Tekh Molodezhi, No 2,
1961, 9676532

FTD-TT-62-163

Is Telepathy Possible, by D. Mirza,
4 pp.
RUSSIAN, per, Tekh Molodezhi, No 2,
1961, pp 30-33. 9676532

FTD-TT-62-163

**Scientific
Medicine (Contd)**

**Selected Articles From the Russian
Periodical Teoriya i Praktika Fiz
Kul'tury.**

Vol XXIV, No 1, 1961, (NY-7076).
Use of Static and Force Exercises on
Rings for the Physical Training of
Gymnasts, by A. A. Korobova,
A. B. Plotkin, (pp 26-32).

*JPRS

Instrument for Determining Latent
Periods of Motor Reactions, by
I. N. Sal'chenko, I. M. Kozlov,
(pp 67-69).

Vol XXIV, No 4, 1961, (NY-7078).
Portable Equipment for the Reflex-
Motor Method With Remote Control,
by B. A. Ashmarin, L. D. Kudryavtsev,
(pp 291-295).

*JPRS

Tremography as a Method of Evaluating the Functional Condition of the Central Nervous System of Sportsmen, by V. A. Safonov, (pp 295-297).

Vol XXIV, No 8, 1961, pp 627-630,
(SF-2227).
Phonotremometer (FT-2V), by
Yu. N. Verkhalo.

*JPRS

Vol XXIV, No 9, 1961, pp 701-706,
(NY-7071).
Electromyographical Analysis of the Rigidity of Posture of Riflemen in Conditions of Training and Competition, by S. P. Marikashvili, A. S. Meliya, et al.

*JPRS

Scientific
Medicine (Contd)

Selected Articles From the Russian
Periodical Teoriya i Praktika Fiz
Kul'tury. (Contd)

- Vol XXIV, No 10, 1961, pp 757-760,
(NY-7079). *JPRS
- Electrophysiological Study of Exercises Leading to Mastering the Horizontal Support on Crossbars, by A. G. Vasil'yev.
- Vol XXIV, No 11, 1961, pp 867-870,
(NY-7099). *JPRS
- A Method of Vectorcardiography During the Medical Study of Sportsmen, by Zh. A. Teslenko.
- Vol XXIV, No 12, 1961, pp 907-909,
(NY-7097). *JPRS
- On the Physical Training of the Cosmonaut, by L. V. Chkhaidze.
- The Study of Healthy People by the Method of Ultra Low-Frequency Ballistocardiography, by I. L. Nazarov, (NY-7115).
- RUSSIAN, per, Terapevticheskiy Arkhiv, Vol XXXIV, No 4, 1962, pp 36-46. *JPRS
- The Role of Viruses in the Origin of Malignant Tumors, by G. I. Avdeyev, 9 pp.
- RUSSIAN, per, Ucheniye Orake, 1961, pp 18-27. JPRS 13800
- The Polarographic Activity of Blood Serum Proteins During Acute Radiation Sickness and the Prophylactic Administration of Propyl Callate, by V. A. Baraboy, S. A. Bershteyn, 8 pp.
- RUSSIAN, per, Ukrain Biokhim Zhur, Vol XXXIV, No 1, 1962, pp 32-38. JPRS 13639

Scientific
Medicine (Contd)

Changes in Blood Protein in Acute Leukemia, by Ye. D. Ponomareva, 13 pp. RUSSIAN, per, Vest Ak Med Nauk SSSR, Vol XVII, No 2, 1962, pp 82-89.

JPRS 13645

Experimental Bases for the Use of Central Cholinolytics in Practical Medicine, by P. P. Denisenko, (NY-7119). RUSSIAN, per, Vest Ak Med Nauk SSSR, No 3, 1962, pp 48-58.

*JPRS

Alloplasty of Thoracic Wall Defects by Means of Capron Fabric, by Ye. V. Serova, 6 pp. RUSSIAN, per, Vest Khir imeni I. I. Grekova, Vol LXXXVIII, No 2, 1962, pp 6-11.

JPRS 13620

An Evaluation of the Effectiveness of the Use of the Plasma-Substitute BK-8 for Parenteral Protein Nutrition, by M. N. Yatsentyuk, (NY-7123). RUSSIAN, per, Vest Khir imeni I. I. Grekova, Vol LXXXVIII, No 3, 1962, pp 73, 74.

*JPRS

The Use of Chlorvinyl for the Reconstruction of Tendon Sheaths, by V. A. Katonin, (NY-7123). RUSSIAN, per, Vest Khir imeni I. I. Grekova, Vol LXXXVIII, No 3, 1962, pp 78-80.

*JPRS

The Reflection of Human Typological Characteristics During the Process of Efficiency Formation, According to the Ergographic Method, by L. P. Pavlova, (NY-7116). RUSSIAN, per, Vest Leningrad Univ, Ser Biol, No 1, 1962, pp 124-133.

*JPRS

Scientific
Medicine (Contd)

The Development of Veterinary Science in Kazakhstan, by D. K. Karabayev, 20 pp.
RUSSIAN, per, Vest Sel'skokhoz Nauki, No 6, 1961.

JPRS 13657

Biosynthesis and Fibrillogenesis of Collagen Proteins, by V. I. Mazurov, (DC-6825).
RUSSIAN, per, Voprosy Med Khim, Vol VIII, No 1, 1962, pp 3-16.

*JPRS

Disturbance in the Metabolism of Tissue Iron in the Liver of Irradiated Mice, by G. V. Voskoboinikov, (DC-6825).
RUSSIAN, per, Voprosy Med Khim, Vol VIII, No 1, 1962, pp 17-19.

*JPRS

Change of Glycogen Content in the Liver and Muscles of Animals Adapted to Cold and Animals Not Adapted to Cold, by L. A. Guseva, (NY-7105).
RUSSIAN, per, Voprosy Med Khim, Vol VIII, No 2, 1962, pp 199-204.

*JPRS

The Effect of an Ultrahigh Frequency Electric Filed on Change of Reactivity of Children in Treating Sepsis in the Newborn, by I. P. Khlystova, 8 pp.
RUSSIAN, per, Voprosy Okhrany Materinstva i Detstva, Vol VII, No 3, 1962, pp 47-52.

JPRS 13735

The Effect of Indigestion of Malt Extract on Biochemical Changes in the Blood of Athletes After Completing Various Kinds of Exercises, by A. F. Krasnova, N. R. Chagovets, 6 pp.
RUSSIAN, per, Voprosy Pitaniya, Vol XXI, No 2, 1962, pp 37-39.

JPRS 13555

The Effect of X-Irradiation of Thiamine (Vitamin B₁) Metabolism, by M. M. Kubareva, 10 pp.
RUSSIAN, per, Voprosy Pitaniya, Vol XXI, No 2, 1962, pp 76-80.

JPRS 13555

Scientific
Medicine (Contd)

Theoretical Prequisites for Work of the
Aerosol Chamber UBK-1 for Study of Ex-
perimental Respiratory Infections.

Report I. Dynamics of Action of the
Aerosol Chamber, by V. M. Bolotovsky,
(NY-7074).

RUSSIAN, per, Voprosy Virusolog, Vol VI,
No 4, 1961, pp 454-457.

*JPRS

Theoretical Principles of Work of the
Aerosol Chamber MBK-1 for Study of Ex-
perimental Respiratory Infections.

Report II. Dynamics of Action of the
Aerosol Chamber. Report II. Assessment
of Aerosol According to Some Physical
Parameters, by V. M. Bolotovsky, (NY-7074).

RUSSIAN, per, Voprosy Virusolog, Vol VI,
No 4, 1961, pp 458-462.

*JPRS

Characteristics of Ornithosis as Induced
by Aerosol Infection, by I. I. Terskikh,
V. M. Bolotovsky, et al, (NY-7074).

RUSSIAN, per, Voprosy Virusolog, Vol VI,
No 4, 1961, pp 463-470.

*JPRS

Electron Microscope Study of DNA I.
Molecular Morphology of DNA Under Various
Methods of Extracting It, by A. M. Tongur,
A. L. Zaydes, et al, (SF-2259).

RUSSIAN, per, Vysokomolekulyarnyye
Soyedineniya, Vol IV, No 1, 1962,
pp 140-142.

*JPRS

Electron Microscope Study of DNA II.
Changes in the Molecular Morphology of
DNA Under the Effect of Ionizing Radia-
tion, by A. M. Tongur, A. L. Zaydes,
et al, (SF-2259).

RUSSIAN, per, Vysokomolekulyarnyye
Soyedineniya, Vol IV, No 1, 1962,
pp 143, 144.

*JPRS

Scientific
Medicine (Contd)

Basic and Disputed Problems in the Theory of the So-Called Collagen Diseases, by Kh. Kh. Mansurov, 8 pp. RUSSIAN, per, Zdravookhraneniye Tadzhik, No 1(45), Jan/Feb 1962, pp 3-9.

JPRS 13799

Collection of Theses on Achievements in Medical Sciences in Commemoration of the 10th National Foundation Day of China, (NY-7089), (DC-6857).

CHINESE, bk, Ch'ing-chu Chien-kuo Shih-chou-nien I-hsueh K'o-hsueh Ch'eng-chiu Lun-wen Chi-hsia Chuan, Vol II, Dec 1959, pp 3-372, (NY-7089); pp 373-774, (DC-6857).

*JPRS

Different Treatment of One Disease and Similar Treatment of Different Diseases, by Shen Tzu-yun, 9 pp. CHINESE, per, K'o-hsueh T'ung-pao, No 10, 1961, pp 51-53.

JPRS 13647

Philosophy and Cybernetics, by Arnost Kolman, 21 pp. CZECH, per, Nova Mysl, No 1, 1962, pp 48-57.

JPRS 13642

Leukemia as Possible Complication of Irradiation Therapy in Cervical Carcinoma, by M. Theiry, S. Ringoir, 11 pp. DUTCH, per, Belg Tijdschrift Geneeskunde, Vol XVII, No 10, 1961, pp 524-530.

AEC Tr-4956

Familial, Typical and Atypical Degeneration of the Retina, by K. T. A. Halbertsma, 28 pp.

DUTCH, per, Nederlandsch Tijdschrift Geneeskunde, Vol LXXII, 1928, pp 5205-5220.

AEC NP Tr-856

**Scientific
Medicine (Contd)**

Optical and Electronic Microscopy Study
of the "Immunologically Competent Cells"
in the Course of Grafting Reactions, by
Jacques-Louis Binet, Georges Mathe,
5 pp.

FRENCH, per, Comptes Rendus, Vol CCLIII,
23 Oct 1961, pp 1852-1853. 9099870

AEC SCL-T-404

Fat Embolism During the Course of Trauma
to the Extremities, by J. Bonnal, M.
Carcassonne, 19 pp.

FRENCH, per, Marseille Chir, Vol XIII,
Mar/Apr 1961, pp 101-110.

Navy Tr 3116/NMS 680

Frozen Bone Heterotransplants, by
R. Judet, J. Judet, et al, 16 pp.
FRENCH, per, Memoires de Academie
Chirurgie, Vol LXXVIII, 1952, pp 919-924.

Navy Tr 3119/NMS 687

Study of the Association: Polycythemia-
Cancer, by Jean Bernard, M. Tubiana,
M. Boiron, 13 pp.

FRENCH, per, Nouvelle Revue Francaise
d'Hematologie, Vol I, 1961, pp 473-478.
9099875.

AEC UCRL Tr-779

Radiation Treatment of Primary Bone
Tumors, by F. Baclesse, 20 pp.
FRENCH, per, Radiol Clin, Vol XXVIII,
1959, pp 276-290.

Navy Tr 3123/NMS 686

Problems Faced by the Hematologists
in the Treatment of Subjects Irradiated
Accidentally With a High Dose, by
Georges Mathe.

FRENCH, per, Revue d'Hematologie,
Vol XV, No 1, 1960, pp 3-9.

*AEC

Obstetrical Paralysis of the Brachial
Plexus, by G. Laurence, 16 pp.
FRENCH, per, Revue du Praticien,
Vol IV, No 29, 1954, pp 2699-2709.

Navy Tr 3117/NMS 681

Scientific
Medicine (Contd)

Virus Infections of the Central Nervous System Transmitted by Arthropods in Europe.

GERMAN, rpt, Durch Arthropoden Ubertragene Virusinfektionen des Zentralnervensystems in Europa, 122 pp, Encl to CCIA, FD 62-926.

*ACSI I-1403
ID 2198533

Intracellular Localization of Lipids in Experimental Fatty Metamorphosis of the Liver, by Diether Neubert, Inge Hoffmeister, 25 pp.

GERMAN, per, Arch Exptl Pathol und Pharmakol, Vol CCXXXVII, 1960, pp 519-537. 9099905

AEC Tr-4641

The Localization of Antibody Formation, by G. Engelhardt.

GERMAN, per, Deutsche Medizinische Wochenschrift, Vol LXXXIII, No 20, 1958, pp 877-880.

*ACSI I-1370
ID 2198521

The Significance of Division Into Stages in Sarcoidosis (Boeck's Disease), by K. Wurm, 12 pp.

GERMAN, per, Deutsche Medizinische Wochenschrift, Vol LXXXV, No 35, 26 Aug 1960, pp 1541-1548.

Navy Tr 3118/NMS 682

Physiological Aspect of Projection in Nondarkened Classrooms, by J. Rieck.

GERMAN, per, Lichitechnik, Vol VII, No 12, 1955, pp 462-464.

CSIRO

Social Medicine and Hygiene. Danger to Health Caused by Barium, by K. H. Sroka.

GERMAN, per, Muenchener Medizinische Wochenschrift, Vol XCIII, No 39, 1951, pp 1939-1942.

CSIRO

Scientific
Medicine (Contd)

The Course of Broeck's Disease on
Skin and Lungs Under Corticosteroid
Therapy, by E. Naegele, W. Mayhofer, 29 pp.
GERMAN, per, Munschener Medizinische
Wochenschrift, Vol CII, 1960, pp 1678-1685.

Navy Tr 3121/NMS 684

Diagnosis and Therapy of Bone Tumors,
by Hans Hellner, 38 pp.
GERMAN, per, Strahlentherapie,
Sonderbaende, Vol XLIII, 1959, pp 81-96.

Navy Tr 3124/NMS 685

Medical and Biological Research and
Development in Israel, (NY-7083).
HEBREW, YIDDISH, np, Tel Aviv,
Jan/Apr 1962.

*JPRS

New Doctors and Candidates, 12 pp.
HUNGARIAN, per, Magyar Tudomany,
Vol LXVIII, Vol VI, (New), No 12,
1961, pp 770-773.

JPRS 13586

Polyctyhemia Rubra in Childhood, by
Mario Pozzan, Diego Sparta, 17 pp.
ITALIAN, per, Acta Paediatrica Latina,
Vol VI, 1953, pp 627-640. 9099872

AEC UCRL Tr-789

Studies in the Changes of Bone Marrow
Caused by Preservation in Glycerol at
-79°C. Observations on the Mode of
Protective Action of the Glycerol and
on the Effect of Glycerol and Exposure
to Low Temperatures, by U. Torello.
ITALIAN, per, Bollettino Societa Italiana
di Biologia Sperimentale, Vol XXXV,
1959, pp 1417-1427.

*Navy/NMS

Some Observations on the Viability
of Sporozoites, by G. Raffaele,
14 pp.
ITALIAN, per, Revista di Malariaologia,
Vol XXXIV, No 4/6, 1955, pp 215-226.

Navy Tr 3120/NMS 68:

Scientific
Medicine (Contd)

The Influence of Iron on the Blood
Pattern in Normal Hens and Those Arti-
ficially Infected With Fowl Cholera,
by Kazimiera Werda, 30 pp.
POLISH, per, Annales Universitatis
Mariae Curie-Sklodowska, Vol X, Sec DD,
No 9, 1955, pp 239-266.

OTS 60-21223
PL-480

Investigations Into the Metabolism of
Copper and Molybdenum, by Rajmund Rys,
Barbara Lazarska, 6 pp.
POLISH, per, Roczniki Nauk Rolniczych,
Vol LXX, Ser B, No 1, 1955, pp 1-5.

OTS 60-21418
PL-480

Necrosis of Tails in Suckling Pigs,
by Henryk Balbierz, 12 pp.
POLISH, per, Weterynaria, No 3, 1957,
pp 169-178.

OTS 60-21249
PL-480

Proceedings of the General Session of
the Society of Medical Sciences, 16 pp.
RUMANIAN, np, Muncitorul Sanitar,
14 Apr 1962, pp 1, 2.

JPRS 13833

Effect of Mechanical Vibrations on
Electro-Corticograms, by Elio Garcia-
Austt, E. G. Migliaro.
SPANISH, per, Annales de la Facultad
de Medicina, Vol XLIV, 1959, pp 285-292.

*FTD-TT-62-816

Organic Digestive Diseases of Probably
Psychogenic Origin, by Marcos Meeroff,
26 pp.
SPANISH, per, Semana Med (N. Aires),
Vol CXV, 17 Dec 1959, pp 975-983.

Navy Tr 3122/NMS 685

**Scientific
Medicine (Contd)**

The Second All-Union Conference on Mycotoxicoses
of Man and Farm Animals, by O. O. Nikols'ka,
5 pp.

UKRAINIAN, per, Microbiologichnyy Zhurnal,
Vol XXIV, No 1, 1962, pp 64-66.

JPRS 13721

On the Nervous Regulation of the Blood
Picture, by S. Julius, 14 pp.

UNKNOWN, per, Neuropsihijatrija, Vol VI,
1958, pp 58-66.

AEC UCRL Tr-797

**Scientific
Minerals/Metals**

Erbium and Its Alloys, by E. M.
Savitskiy, et al.
RUSSIAN, bk, Alloys of Rare
Metals, 1960, pp 43-48.

DSIR LLU N-2276

Authigenic Minerals in
Sedimentary Rocks, by G. E.
Teodorovich.
RUSSIAN, bk, Autigennye Meneraly
Osadchnykh.

CB

Borides of Rare-Earth Metals, by
G. V. Samsonov, Yu. B. Paderno.
RUSSIAN, bk, Boridy Redkozemel'nykh
Metallov, 1961, 94 pp.

*AEC

New Data of Rare Element Mineralogy,
by A. Ginzburg, N. N. Malyshchev.
RUSSIAN, bk, Geologiya Mestorozhdenii
Redkikh Zelementov, No 9, 1961.

*CB

Alumina-Chrome Refractories for
Lining Steelworks Ladles, by
V. A. Bron, P. Lande.
RUSSIAN, bk, Metallurgiya, 1957,
pp 17-18.

NLL M. 4174

Production of Aluminosilicate
Cement, and Investigation of Its
Structural and Technical Properties,
by I. I. Kholin, V. L. Pankratov.
RUSSIAN, bk, Nauchnyye Soobshcheniya,
Gosudarstvennyi Vsesoyuznyi Nauchno-
Issledovatel'skiy Institut Tsementnoy
Promyshlennosti, No 5, Vol XXXVI,
1959, pp 18-27.

*FTD-TT-62-742

General Technology of Metals, by
L. Ye. Aleklin, Gladilin, Krasavin,
et al.
RUSSIAN, bk, Obshchaya Tekhnologiya
Metallov, 3d Ed, 1960, pp 58-72.

*FTD-TT-62-810

Scientific
Minerals/Metals (Contd)

Stations of the Underground
Gasification of Coals, by
I. A. Turchaninov, 6 pp.
RUSSIAN, monograph, Podzemnaya
Gasifikatsiya Ugley, 1961,
pp 43-50.

JPRS 13816

Search for Uranium Deposits, by
V. G. Melkov, L. Ch. Pukhal'skiy,
353 pp.
RUSSIAN, bk, Poiski Mestorozhdenii
Urana, 1957.

AEC Tr-4529

Relaxation Phenomenon in Metals and
Alloys, by B. N. Finkelshtein.
RUSSIAN, bk, Proceedings of the
Intercollege Conference, 1960.

*CB

Influence of Plug and Roll Shape
on the Basic Parameters of the
Piercing Process, by V. S.
Smirnov, M. F. Nevizhin.
RUSSIAN, bk, Stal' Sbornik Statei,
1961, pp 316-334.

BISI 2726

Structure and Properties of Liquid
Metals, by A. N. Samarin.
RUSSIAN, bk, Stroyenie i Svoistva
Zhidkikh Metallov, 1960, 211 pp.

AEC Tr-4879

Aspects of the Theory of Heat
Resistance of Metals and Alloys,
by K. A. Osipov, 249 pp.
RUSSIAN, bk, Voprosy Teorii
Zharoprochnosti Metallov i Splavov,
1960.

OTS 60-51083
PL-480

Distribution of Oxide Films in Contact
Area During Ultrasonic Welding, by
M. V. Bruk.
RUSSIAN, per, Avtomat Svarka, Vol XV,
No 3, 1962, pp 54-57.

HB 5574

Scientific
Minerals/Metals (Contd)

The Separation of Aluminium,
Iron and Manganese During Their
Precipitation From the Solution
in Water Basins, by B. P. Krotov.
RUSSIAN, per, Dok Ak Nauk SSSR,
Vol LXXVIII, 1951, pp 531-534.

CSIRO

The Influence of Oxygen, Nitrogen
and Hydrogen on the Adsorption of
Ethyl Xanthate by Gold, Silver,
Copper and Their Alloys, by I. N.
Plaksin, S. P. Zaitseva.
RUSSIAN, per, Dok Ak Nauk SSSR,
Vol CI, No 4, 1955, pp 727-730.

LL HTS 1932

Kinetics of Vapor Boriding of
Nickel, by M. L. Rutkovskiy,
N. A. Anufriyeva, 10 pp.
RUSSIAN, per, Fiz Metal i Metallov,
Vol XII, No 2, 1961, pp 317-322.
9676534

FTD-TT-62-233

Phase Diagram of a Tungsten-
Rhenium System and the Properties
of Its Alloys, by E. M. Savitskiy,
M. A. Tylkina, L. L. Shishkina,
14 pp.
RUSSIAN, per, Iz Ak Nauk SSSR,
Otdel Tekh Nauk, Metal i Toplivo,
No 3, 1959, pp 99-107. 9099898

AEC Tr-5023

Melting Diagram for the Titanium-
Vanadium-Molybdenum Ternary System,
by I. I. Kornikov, R. S. Polyakova,
4 pp.
RUSSIAN, per, Iz Ak Nauk SSSR,
Otdel Tekh Nauk, Metall i
Toplivo, 1960, No 1, pp 85-89.

ARS Journal
Vol XXXI, No 5
May 1961

Scientific
Minerals/Metals (Contd)

Variation in Density of Lattice
Defects [Dislocations] in
Technically Pure Iron During
Quenching and Tempering, by
L. I. Mirkin.
RUSSIAN, per, Iz Vysshikh Ucheb
Zaved, Chern Metal, No 1, 1961,
pp 158-159.

HB 5131

Effect of Hydrogen in Open-Hearth
Finishing Slag Upon Hydrogen
Content of Steel During Tapping and
Pouring, by B. P. Nam, G. N. Oiks,
V. A. Kudrin.
RUSSIAN, per, Iz Vysshikh Ucheb
Zaved, Chern Metall, No 9, 1961,
pp 54-58.

HB 5439

Stability of Alloy Steels in
Liquid Tin, by F. L. Edel'man,
V. V. Pokrovskiy.
RUSSIAN, per, Iz Vysshikh Ucheb
Zaved, Chern Metall, No 2, 1962,
pp 123-124.

HB 5564

The Kinetics of Ammonia Synthesis
on an Iron Catalyst With the
Addition of Uranium by A. P.
Zasorin, et al.
RUSSIAN, per, Khim i Khim, No 4,
pp 695-698.

Dept of Interior
TN7 E57 No 510

Determining the Coefficient of
Friction by the Hardness
Distribution in the Plastic
Zone, by P. A. Ivanov.
RUSSIAN, per, Kuznechno-
Shtampovochnoye Proiz, Vol III,
No 5, 1961, p 10.

BISI 2674

**Scientific
Minerals/Metals (Contd)**

**Selected Articles From the Russian
Periodical Metallov i Term Obrab
Metallov.**

- No 3, 1960
- Distribution of Carbon in the Carburized Surface of Alloy Steels, by A. P. Gulyayev, V. D. Zelenova. (pp 2-7.) HB 5322
- Carburization of Stainless Steels, by A. G. Andreyeva, A. P. Gulyayev. (pp 7-11.) HB 5323
- Carburizing of Chromium Stainless Steel, by N. F. Vyaznikov, S. S. Ermakov, N. N. Soldatova. (pp 11-13.) HB 5324
- Embrittlement of Nitrided Case on [ASTAM A355-57T] Steel 38KhMYuA, by N. A. Fertik. (pp 13-17.) HB 5325
- Structure and Wear-Resistance of Phosphate-Coated Steel Surfaces, by I. M. Lyubarskiy, et al. (pp 18-21.) HB 5326
- Effect of the Alloy Content on Properties of Hypereutectoid Tool Steels, by Yu. A. Geller, E. A. Lebedeva. (pp 31-40.) HB 5328
- Effect of Heating Time During Hardening on Structure and Properties of High-Speed Steel, by E. A. Smol'nikov. (pp 41-47.) HB 5329

**Scientific
Minerals/Metals (Contd)**

**Selected Articles From the Russian
Periodical Metallov i Term Obrab
Metallov. (contd)**

- No 3, 1960
Rapid Tempering of High-Speed Steel, by K. A. Malinina.
(pp 47-51.) HB 5330
- Data Sheet on Heat Resistant 0.12% C, 15% Cr, 35 Ni, 5% W, 1.e Ti Steel. (pp 61-63.) HB 5332
- No 5, 1960
Principle of Continuous Operation in Automation of the Heat Treatment of Metals, by A. P. Erokhin. (pp 2-7.) HB 5392
- Reducing the Distortion During Hardening of Billets and Parts of Aluminum and Alloy V95, by V. D. Bessonov, et al. (pp 11-15.) HB 5394
- Non-Oxidizing Heating of Precision Alloys, by M. A. Filyant, et al.
(pp 15-18.) HB 5395
- Prevention of Decarburization in the Annealing of High-Speed Steel, by D. A. Teimer, et al. (pp 19-23.) HB 5396
- High-Strength Transition-Type Austenitic Martensitic Stainless Steels, by Ya. M. Potak, et al.
(pp 24-30.) HB 5397
- Data Sheet: TTT Diagrams of 20Kh2N4A and 18Kh2N4VA Steels, by A. A. Popov. (pp 31-34.) HB 5407

**Scientific
Minerals/Metals (Contd)**

**Selected Articles From the Russian
Periodical Metallov i Term Obrab
Metallov.**

- No 5, 1960
A Low Alloy Sheet Steel With
Improved Strength, by M. I.
Kurmanov, et al. (pp 35-39.) HB 5398
- Treatment of Cast Iron in Steam,
by P. P. Petrosyan, et al.
(pp 40, 41.) HB 5399
- Microhardness Changes of
Inclusions of Phosphorous
Compounds in Gray Irons
Between 20 and 300° C, by
M. M. Snitkovskiy, I. I. Silayev.
(pp 42-45.) HB 5400
- Length Changes of Magnesium-
Inoculated Cast Iron During
Annealing and Normalizing, by
D. Sh. Frolov, (pp 45-48.) HB 5401
- Effect of Quenching on Graphit-
ization of Cast Iron and Steel,
by E. N. Pogrebnoi, Yu. N. Taran.
(pp 48-52.) HB 5402
- Use of High-Manganese Steel in
Metallurgical Equipment Components,
by M. A. Tylkin, V. I. Sivak.
(pp 53-54.) HB 5403
- Increasing the Scaling Resistance
and Hot Strength of Steel Parts
(by Fire Enameling), by A. N.
Belikov. (pp 54, 55.) HB 5404

Scientific
Minerals/Metals (Contd)

Dinas Brick From Chalcedony
Quartzite, by T. S. Ignatova.
RUSSIAN, per, Ogneupory, Vol XXI,
1956, pp 175-177.

CSIRO

Sintering of Power Steels Alloyed
With Copper, Nickel and Carbon, by
M. Petrdlik, J. Strobl.
RUSSIAN, per, Poroshkovaya
Metallurgiya, Vol II, No 1, 1962,
pp 88-91.

HB 5601

Rare Earth Elements, by B. I. Kogan,
13 pp.
RUSSIAN, per, Priroda, No 12, 1961,
pp 26-34.

JPRS 13623

Determination of the Resistance to
Deformation in Dynamic Upsetting
and of the Coefficient of External
Friction for Several Structural
Steels, by K. Ginzburg, N. Ul'man.
RUSSIAN, per, Stal', No 6, 1939,
pp 26-28.

NLL M. 4271

The Utilization of Bessemer Steel
for Some Sections and Other Products,
by S. Loshchilov, B. Fastovskiy.
RUSSIAN, per, Stal', No 2, 1940,
pp 17-22.

NLL M.4275

Influence of Change of Direction
of Plastic Deformation on Certain
Properties of a Metal, by I. M.
Pavlov, V. Ya. Mezis.
RUSSIAN, per, Trudy Inst Metallurgii,
Ak Nauk SSSR, No 3, 1958, pp 295-306.

BISI 2497

**Scientific
Minerals/Metals (Contd)**

Improved Conditions for the Production of Concentrated Nitric Acid by Direct Synthesis by Means of Ultrasonic Field, by L. I. Kuznetsov-Fetisov, Yu. V. Batuyev.
RUSSIAN, per, Trudy Kazanskogo Khim Tekh Inst No 29, 1960,
pp 139-140.

*FTD-TT-62-741

Some Methods of Producing Enriched Uranium 235, by Ho Ping, 10 pp.
CHINESE, per, I'o Hsueh T'ung Pao,
No 2, 1959, pp 36-41.

AEC NP Tr-817

Effects of Non-Metallic Inclusions in Steel on the Formation of Defects in forgings and Castings, by V. Koselev, St. Burda.
CZECH, per, Hutnik, Vol XI, No 8, 1961, pp 373-377.

HB 5210

Effect of Non-Metallic Inclusions in Steel on the Formation of Defects in forgings and Castings, by V. Koselev, St. Burda.
CZECH, per, Hutnik, Vol XI, No 9, 1961, pp 429-436.

HB 5224

Design and Development of An Electronic X-Ray Probe for the Study of Alloys and of the Structure of Metals, by Raymond Castaling.
FRENCH, Thesis, Univ of Paris, 8 Jun 1951.

ERDL, Ft Belvoir T-1510

Dusts — Silicosis.
FRENCH, bk, Centre d'Etudes et Recherches, 1959.

Dept of Interior
TN7 E57 No 518 (R)

Scientific
Minerals/Metals (Contd)

Artificial Reproduction of Minerals
Appearing in the Contact Metamorphism
of Granite, by Mireille Christophe-
Michel-Levy.

FRENCH, per, Bulletin de la Societe
Francaise de Mineralogie et de
Cristallographie, Vol LXXVI, No 7-9,
pp 237-293, (Excerpts Only pp 260-273.)

*AEC

Variation in Specific Mass of
Uranium After Cold-Working and
During Annealing, by J. P. Mustelier.
FRENCH, per, Comptes Rendus,
Vol CCXLVI, 1958, pp 3347-3350.

*AEC

Dissociation of the Dislocations in
Iron and the Body Centered Cubic
Metals, by Charles Crussard, 4 pp.
FRENCH, per, Comptes Rendus, Vol CCLII,
1961, pp 273-275. 9099906

AEC Tr-5024

On the Luminous Emission From Cadmium
Sulfide Bombarded by Cathodic Rays,
by Francois Bombre, Francois A. Gans,
5 pp.

FRENCH, per, Comptes Rendus Academie
des Sciences, Vol CCLII, No 15, Apr 10,
1961, pp 2209-2211. 9676323

FTD-TT-62-130

Determination of Equilibrium Diagrams
by Solid State Diffusion, by Y. Adda,
M. Beyeler, A. Kirianenke, F. Maurice.

FRENCH, per, Memories Sci Revue de
Metallurgie, Vol LVIII, Sep 1961,
pp 616-724.

*AEC

Study of the Electrical Resistivity of
Zirconium, Application to the Study of
the Recrystallization of the Metal After
Cold Work. Influence of the Purity, by
L. Renucci, J. P. Langeron, P. Lehr, 26 pp.

FRENCH, per, Memoires Sci Revue de
Metallurgie, Vol LVIII, 1961, pp 699-715.
9099903

AEC Tr-5035

Scientific
Minerals/Metals (Contd)

Welding of Chrome-Molybdenum-Vanadium Steel Which Are Heat Resistant and With a High Resistance to Cold, by E. Pouillard.

FRENCH, per, Metaux-Corrosion-Industries, Vol XXXIV, No 2, 1959, pp 58-71.

*BISI 2783

The Comparative Risk of Ignition of Coal Dust Clouds by Permitted Explosives, by H. C. Grimshaw.

FRENCH, per, Revue de l'Industrie Minerale, 1957, pp 490-492.

CSIRO

Research on the Safety of Explosives in Connection With Undisturbed Coal Dust, by W. Cybulski.

FRENCH, per, Revue de l'Industrie Minerale, 1957, pp 493-497.

CSIRO

Capacity for Transmitting Detonation, by M. Taillandier, G. Thouzeau.

FRENCH, per, Revue de l'Industrie Minerale, 1957, pp 569-578.

CSIRO

A New Process of Chromium Plating by Heat and Formation of Mixed Alloys by Diffusion, by P. Galmiche.

FRENCH, per, Revue de Metallurgie, Vol XLVII, No 3, 1950, pp 192-200.

CSIRO

Application of LD [Basic Oxygen] Process to High Phosphorus Pig Iron - Technique Used at Pompey Steelworks, by G. Messin.

FRENCH, per, Revue de Metallurgie, Vol LXII, No 10, 1960, pp 947-954.

HB 5290

Scientific
Minerals/Metals (Contd)

The Diffusion and Solubility of Hydrogen in Metals, by W. Eichenauer.
FRENCH, per, Revue Metallurgie Memoires Scientifiques, Vol LVII, Dec 1960, pp 943-948.

BISI 2644

Crystallographic Study by X-Ray Techniques of Non-Metallic Inclusions in Steel and Their Origins, by M. Ferrero, G. Timo, F. Creton.
FRENCH, per, Revue Metallurgie Memoires Scientifiques, Vol LIX, No 1, 1962, pp 75-79.

*BISI 2784

Diffusion of Metals: Exchange Reactions, by Wolfgang Seith, Theodor Heumann.
GERMAN, bk, Diffusion in Metallen: Platzwechselreaktionen, 1955.

AEC Tr-4506

Highlights of Activities of the Dortmund-Derne Mine Experiment Station for 1960, by D. von Konigslow.
GERMAN, Monthly Reports of the Dortmund-Derne Mine Experiment Station.

Dept of Interior
TN7 E57 No 515 (R)

The Importance of Dislocations at the Crystal Boundaries of Tempered Martensite for the Mechanism of "Temper Brittleness", by A. Nasin.
GERMAN, per, Acta Metallurgica, Vol VII, Mar 1959, pp 227-228.

BISI 2655

Chemical Technology and Aluminum Consumption, by Hans Ginsberg.
GERMAN, per, Aluminum, Vol XXIVII, No 8, pp 537-541.

Dept of Interior
TN7 E57 No 485

Scientific
Minerals/Metals (Contd)

The Effect of Heating Conditions
and Alloy Composition on the
Internal Oxidation of Iron Alloys,
by H. Schenck, E. Schmidtmann,
H. Muller.

GERMAN, per, Archiv fuer
Eisenhuttenwesen, Vol XXXI,
Feb 1960, pp 121-128.

BISI 2675

Simple Method of Isolation of Thin
Nonmetallic Coatings, by G. Konig.
GERMAN, per, Archiv fuer Eisenhut-
tenwesen, Vol XXXII, No 10, 1961,
pp 729-731.

HB 5412

X-Ray Fluorescence Spectrometric
Determination of Tantalum and
Columbium and Some Companion
Elements in Tantalum and Columbium-
Containing Materials, by H.
Rothman, et al.
GERMAN, per, Archiv fuer Eisenhutten-
wesen, Vol XXXIII, No 1, 1962,
pp 17-22.

HB 5558

Design of Oblique Rolling Mills
and Plugs, by H. W. Kupper,
P. Gruner.
GERMAN, per, Bander, Bleche,
Rohre, Part I, Nov 1961,
pp 558-564, Part II Dec 1961,
pp 600-605, Part III, Jan 1962,
pp 21-25.

*BISI 2790

Oxygen Refining of Carbon and
Alloy Steels in the Basic Arc
Furnace, by R. Plessing.
GERMAN, per, Berg- und
Huttenmannische Monatshefte,
Vol CVI, No 9, 1961, pp 341-351.

BISI 2631

Scientific
Minerals/Metals (Contd)

Ferro-Alloys and Cast-Iron Melts.
GERMAN, per, Metallurgie, Vol X,
1954, pp 733-740.

CSIRO

Quartz Micro-Balance for the
Determination of Magnetic
Susceptibilities, by F. Blaha.
GERMAN, per, Mikrochemie Vereinigt
Mit Mikrochimica Acta, Vol XXXIX,
No 4, 1952, pp 339-354.

CSIRO

Comparative Investigation and Evaluation
of Different Methods of
Determining Austenitic Grain Size, by
J. Skarek, K. Ciha.
GERMAN, per, Neue Hütte, Vol VI,
May 1961, pp 301-309.

BISI 2589

Selected Articles From the German
Periodical Stahl und Eisen.

Vol LXXVIII, 1958, pp 1389-1395.
9093453

AEC UCRL Tr-780(L)

Behavior of Steels With 11-20 %
Chromium After Long-Time Heating
in 475° Embrittlement Range, by
Ewald Baerlecken, Heinz Fabritius,
18 pp.

Vol LXXI, 11 May 1961, pp 641-645
Phase Separation of Slags During the
Normal Conduct of a Basic Converter
Steel Melt, by H. vom Ende,
G. Mahn.

*BISI 2799

Scientific
Minerals/Metals (Contd)

Selected Articles From the German
Periodical Stahl und Eisen. (contd)

- Vol LXXXI, No 16, 1961, pp 1041-1047. HB 5239
Blast Furnace Smelting Trials Using
Lime Coke, by P. Huttemann,
R. Mintrop.
- Vol LXXXI, No 21, 1961, pp 1388-1392. HB 5348
Influence of Lime Sulfur on the
Desulfurization of Steel Baths, by
W. Schleicher, H. Lutz,
H. Gravenhorst.
- Vol LXXXI, No 22, 1961, HB 5365
pp 1449-1456.
Degassing of Steel in the Ladle,
by K. G. Speith, W. vom Ende,
R. Specht.
- Occurrence of Titanium Sulfide Ti_2S in
Titanium-Stabilized Austenitic Chrome-
Nickel Steels, by K. Wetzlar,
G. Lennartz.
GERMAN, per, Technische Berichte,
Vol I, No 1, 1961, pp 15-16. HB 5595
- Waste Water in Coking Plants, by E.
Knop.
GERMAN, per, Technische Mitteilungen,
Vol XLVIII, No 5, 1955. CSIRO
- Estimation of Magnesium in Various
Types of Iron, by R. Reichert.
GERMAN, per, Z fuer Analytische
Chemie, Vol CL, pp 250-253. CSIRO
- The Significance of Pore Diffusion
in the Reduction of Iron Ores, by
L. Von Bogdandy, W. Janke.
GERMAN, per, Z fuer Elektrochemie,
Vol LXI, No 9, 1957, pp 1146-1153. *BISI 2804

Scientific
Minerals/Metals (Contd)

Diffusion Behaviour of Rare Metal
Platings, Part I, by H. Buckle.
GERMAN, per, Z. fuer Metallkunde,
Vol XXXVII, No 1, 1946, pp 47-52.

CSIRO

New Electrolytic Reactions for
Stainless Steels Containing the
Sigma Phase, by I. Bertetti.
ITALIAN, per, Metallurgia Italiana,
No 7, 1956, pp 324-326.

CSIRO

On the Single Crystal of Lead
Titanate, by Shoichiro Nomura,
Shozo Sawada.
JAPANESE, per, Report of the
Institute of Science and
Technology, University of Tokyo,
Vol VI, 1952, pp 191-195.

*AEC

Capped and Rimming Steel and Its
Deep Drawing Properties, by
M. Takamuka
JAPANESE, per, Tetsu to Hagane,
Vol XLVI, Sep 1960, pp 1280-1282.

*BISI 2781

The Location of Rock Bursts in the
Coal Mines of the Upper Silesian
Coal Basin, by B. Neyman, 11 pp.
POLISH, per, Archiwum Gornictwa,
Vol II, No 1, 1955, pp 249-265.

CTS 60-21305
PL-480

Surface Alloying and Cladding by
Casting, by I. Gentiu.
RUMANIAN, per, Metalurgia si
Constructia de Masini, Vol XII,
No 5, 1960, pp 390-395.

HB 5373

Ductility and Brittle Fracture,
by E. Steneroth.
SWEDISH, per, Teknisk Tidskrift,
Vol XC, No 10, 1960, pp 221-226.

HB 5469

**Scientific
Nuclear Physics**

Papers From Proceedings of BNL Conference
on Neutron Thermalization.

RUSSIAN, papers, 90 pp.

*AEC

Selected Articles From the Russian
Report Pile Neutron Research in
Physics, Proceedings of a Symposium,
Vienna, October 17-21, 1960.

*AEC

The Magnetic Structure of Chromium,
by V. N. Bykov. (pp 17-21; 429-431).

Physical Measurements Utilizing Fission
Neutrons From Converters, by I. I.
Bondarenko, V. I. Kovalev.
(pp 159-168).

Prospects for the Practical Use of
Isomers, by Yu. V. Petrov.
(pp 229-233).

Research on (n, γ) Reactions With the
USSR Academy of Sciences IRT Reactor,
by L. V. Groshev, A. M. Demidov, et al.
(pp 261-271).

Scientific
Nuclear Physics (Contd)

Selected Articles From the Russian
Report Pile Neutron Research in
Physics, Proceedings of a Symposium,
Vienna, October 17-21, 1960. (contd)

*AEC

Neutron Spectrometry in Fast
Reactors Using He^3 -Filled
Ionization Chambers, by A. I.
Abramov, M. G. Yutkin.
(pp 323-328.)

Cold-Neutron Facility for
Studying the Dynamics of
Condensed Matter Utilizing
Inelastic Scattering of Cold
Neutrons, by M. G. Zemlyanov,
N. A. Chernoplekov. (pp 409-414.)

Thematic Plan of Gosatomizdat for
1962.
RUSSIAN, bk, Tematicheskiy Plan Gosatomizdat
na 1962 god, 63 pp.

*AEC

General Rules Governing Thermodynamic
Isotope Effects in Tritium/Protium
Exchange, by Ya. M. Varshavskiy.
RUSSIAN, rpt, Tritium in the Physical
and Biological Sciences, Proceedings of
a Symposium, Vienna, 3-10 May 1961,
Vol I, pp 170-177.

*AEC

Measuring the Spectra of Tritons in
Nuclear Reactors, by A. A. Oglolblin,
V. I. Chuev.
RUSSIAN, rpt, Tritium in the Physical
and Biological Sciences, Proceedings
of a Symposium, Vienna, 3-10 May 1961,
Vol I, pp 191-200.

*AEC

**Scientific
Nuclear Physics (Contd)**

The 10th Session of the Academic Council of the United Institute of Nuclear Research, by V. Biryukov, 5 pp.

RUSSIAN, per, Atomnaya Energiya, Vol XI, No 3, Sep 1961, p 261.

JPRS 13670

Cybernetic Accelerator, by A. Mints, (NY-6502).

RUSSIAN, np, Izvestiya, 24 Apr 1962, p 6.

*JPRS

Scattering of π -Mesons of 7-8 GeV Energy on Nucleons, With Large Momentum Transfers, by R. A. Aripov, V. G. Grishin, L. V. Sil'vestrov, V. N. Strel'tsov, 4 pp.

RUSSIAN, per, Joint Inst for Nuclear Research, Dubna, 1961, JINR-P-765.

AEC NP Tr-836

Gamma Spectra in Heavy Ion Reactions, by Yu. Ts. Oganesyan, Yu. V. Lobanov, B. N. Markov.

RUSSIAN, per, Joint Institute for Nuclear Research, Dubna, Lab of Nuclear Reactions, (JINR-P-802).

*AEC

Atomic Science and Technical Progress, 11 pp.

RUSSIAN, per, Vest Ak Nauk SSSR, Vol XXXI, No 10, 1961, pp 22-29.

AEC Tr-4873

Nuclear Explosive Materials, by M. Pavlov, 3 pp.

RUSSIAN, per, Voyenniye Znaniya, No 6, 1961, p 24.

JPRS 13611

Scientific
Nuclear Physics (Contd)

Nuclear Electronics: Proceedings of the International Sympsium on Nuclear Electronics Organized by the French Society of Radioelectricians, Paris, 1958.

FRENCH, papers, L'Electronique Nucleaire: Comptes Rendus du Colloque International sur l'Electronique Nucleaire Organise par la Societe Francaise des Radio-electriciens, Paris, 1958.

AEC Tr-4546

Report on the French Nuclear Program, 3 pp.

FRENCH, rpt, Enlarged Symposium on Principles, Implementation and Trends of National Nuclear Programs Held in Lisbon, October 16-20, 1960. 9093437

AEC Tr-5029

Report on the Belgian Nuclear Program, 6 pp.

FRENCH, rpt, Enlarged Symposium on Principles, Implementation and Trends of National Nuclear Programs Held in Lisbon, October 16-20, 1960. 9093438

AEC Tr-5030

Study of Dilution in the Phone of Radioactive Effluents From the Marcoule Center, by J. Rodier, J. Scheidhauer, M. Marichal, 35 pp.

FRENCH, per, Commissariat a l'Energie Atomique, 1961, CEA-2003. 9099893

AEC Tr-5013

The Effect of Impurities on the Rate of Oxidation of Reactor Grade Graphite, by S. Keraudy, F. N. Lang, P. Magnier,

FRENCH, per, Commissariat a l'Energie Atomique, Centre d'Etudes Nucleaires, July 1, 1959, 23 pp.

U. K. Atomic Energy Authority
DEG Inf Ser-112

Scientific
Nuclear Physics (Contd)

The Theory of Nuclear Fission, by
W. Brunner, H. Paul.

GERMAN, per, Annalen der Physik,
Parts I-IV, Vol VII, No 5-6, 1961,
pp 326-341; Vol VIII, No 3-4, 1961,
pp 146-157.

*AEC

The Distribution of Radioactive
Particles and the Inhalation of
Radioactive Aerosols, by W. Herbst,
14 pp.

GERMAN, per, Atomkernenergie, Vol IV,
1959, pp 300-305.

U.K. Atomic Energy
Authority
DEG Inf Ser-26

Studies on the Deactivation of Radio-
active Effluents by Electrodialysis,
by S. Krawczynski, 24 pp.

GERMAN, per, Atomkernenergie, Vol VI,
No 6, 1961, pp 250-260. 9099880

AEC NP Tr-863

The Peaceful Application of Nuclear
Bombs, by Theodore Ginsburg, 39 pp.

GERMAN, per, Neue Zurcher Zeitung,
No 152, 2 Nov 1960, p 9011. 9093454

AEC UCRL Tr-790(L)

The Diffusion of Radioactive Substances
Through Solids of Granular Structure,
by Eberhard Kern, Alfred Schatz, 29 pp.
GERMAN, per, Nukleonik, Vol III, No 2,
1961, pp 61-76. 9099902

AEC Tr-5039

On the Development of a Neutron Con-
ductor in an FRM Reactor, by Josef
Christ, Tasso Springer.

GERMAN, per, Nukleonik, Vol IV, No 1,
Feb 1962, pp 23-25.

*AEC

**Scientific
Nuclear Physics (Contd)**

Present State of the Production and
Market of Uranium-235 and Heavy
Water, by S. Villani.
ITALIAN, per, Energia Nucleare,
Vol IX, No 4, 1962, pp 212-225.

*AEC

The Construction of the Effective
Voltage Diagram of Continuous X-Rays
and Determination of the Degree of
Monochromatisation by Spectral
Analysis, by K. Minami, 12 pp.
JAPANESE, per, Japan Atomic Energy
Research Institute, JAERI-5002,
1961, pp 243-246.

AEC NP Tr-833

Nuclear Energy in Explosive Mining
Works, by K. K. Ponomarev, 9 pp.
POLISH, per, Przeglad Gorniczy,
Vol XVII, 1961, pp 209-214. 9099876

AEC UCRL Tr-768(L)

**Scientific
Physics**

**Ion Sources With Plasma Contraction
by Inhomogeneous Field, by
R. A. Demirkhanov, H. Frohlich,
U. V. Kursanov, 39 pp.
RUSSIAN.**

AEC Tr-4994

**Selected Articles From the Russian
Book Accomplishment of Explosion
Works in Quarries, Moscow, Gosgortekhizdat,
1961.**

*AEC

**From Experience of Producing Ex-
cavations by Explosion, by
A. N. Dashkov, (pp 118-129).**

**Certain Problems of Explosions
for Throw-Out in Grounds, by
I. G. Spiridonov, (pp 140-156).**

**Experimental Studies of the Mech-
anism of Formation of an Explosion
Crater in Ground, by L. N. Marchenko,
(pp 156-172).**

**Direction of Propagation of Fissures
Formed During Break Up of Solid
Rocks by Explosion, by
V. K. Filippov, (pp 172-177).**

**On the Interaction of Charges and
Crater Formation During Instantaneous
Explosion, by F. A. Belayenko,
Yu. V. Gack, M. F. Drukovanyi,
(pp 230-239).**

**Basic Assumptions for Designing
of Explosion Works by the Method of
Crevice Charges, by A. S. Azarkovich,
S. A. Davydov, (pp 274-285).**

**On the Problem of Uniformity of Charge
Calculation, by A. I. Morin, (pp 285-307).**

Scientific
Physics (Contd)

Aerial Photography, by A. I. Shershen',
344 pp.
RUSSIAN, bk, Aerofotos'emka, 1958.

OTS 61-11436
PL-480

Diffusion in Semiconductors, by
B. I. Boltaks.
RUSSIAN, bk, Diffusia v Poluprovodnikakh,
1961.

*CB

Electrochemistry of Molten and Solid
Electrolytes.
RUSSIAN, bk, Elektrokhimiya Rasplavlenniykh
Solevykh i Tverdykh Elektrolitov, 1961,
112 pp.

CB

Photoneutron Method of Determining
Beryllium, by Kh. B. Mezhiborskaya,
34 pp.
RUSSIAN, bk, Fotoneitronnyi Metod
Opredeleniya Berilliya, 1961.

CB

Determining the Temperature Field and
Thermal Stress in Turbine Disks, by
N. S. Minaylenko.
RUSSIAN, bk, Opredeleniye Temperaturnogo
Polya i Teplovyykh Naprasheniy v
Turbinnykh Diskakh, 1960, 68 pp.

*FTD-TT-62-766

Optimum Methods of Searching in Conti-
nuous and Pulsed Systems of External
Control, by A. A. Krasovskiy.
RUSSIAN, rpt, Optimal'niye Metody Poiska
v Nepreryvnikh i Impul'snykh Sistemakh i
Emstremal'nogo Retulirovani.

*FTD-TT-62-747

Fundamentals of Heat Transfer in Avia-
tion and Rocket Engineering, by
V. S. Avduyevskiy, Yu. I. Danilov,
et al, 591 pp.
RUSSIAN, bk, Osnovy Teploperedachi v
Aviationsnoy i Rakетnoy Tekhnike, 1960,
389 pp. 9676750-V

FTD-TT-61-46

Scientific
Physics (Contd)

Stationary Motion of Solid Medium With Shock Waves, by A. G. Badodayev.

RUSSIAN, bk, Frostinstvennye Nestantsionnyye Dvizheniya Spolshnoi Sredy s Udarnymi v Olnami.

*AEC

Special Properties of Heat Transfer Through a Wall With Longitudinal Ribs With Surface Boiling of the Cooling Liquid, by V. K. Shcherbakov.

RUSSIAN, thesis, Soveshchaniye po Teori-
i Massoobmenu, Tezisy, Dokladov i
Soobshcheniy, 1961, 43 pp.

*FTD-TT-62-807

Theory of Elasticity, by V. V. Novozhilov, 323 pp.

RUSSIAN, bk, Teoriya Uprugosti, 1958.

OTS 61-11401

PL-480

Metallurgy and Physics of Semiconductors, by Abrikosov,

RUSSIAN, bk, Voprosy Metallurgii i Fiziki Popluprovodnikov Processing
of the 4th All-Union Conference on Semi-
conduction Materials - A. A. Daikor Insti-
tute of Metallurgy, 1961.

*CB

Selected Articles From the Russian Periodical Atom Energ.

Vol XI, No 5, 1961, pp 426-430.
9676530

FTD-TT-62-19

The Calculation of Heat Transfer in Tubes With a Turbulent Flow of Liquids With Small Prandtl Numbers ($Pr \ll 1$), by V. M. Borishanskiy, N. I. Ivashchenko, 10 pp.

Vol XI, No 6, 1961.
The Interaction of Intense Electron Beams With Plasma, by A. K. Berezin, Ya. B. Faynberg, 11 pp, (pp 493-497). 9676536

FTD-TT-62-314

Scientific
Physics (Contd)

Selected Articles From the Russian
Periodical Atom Energ. (Contd)

Vol XI, No 6, 1961.
A Study of the RB-5 Fast Reactor,
by A. I. Leypunskiy, 12 pp,
(pp 498-505). 9676760

FTD-TT-62-213

Critical Thermal Flow With Boiling
Water in the Channels, by Z. L. Miropol'-
skiy, M. Ye. Shitsman, 13 pp,
(pp 515-521). 9676760

FTD-TT-62-213

The Use of Resonance Indicators
in Studying Neutron Spectra in
Fast-Neutron Reactors, by
V. I. Golubev, V. I. Ivanov,
10 pp, (pp 522-527). 9676760

FTD-TT-62-213

Vol XI, Nov 1961, pp 435-439.
The Separation of Lithium Isotopes
by Molecular Distillation of Liquid
Lithium Metal, by V. A. Malyusov,
V. Yu. Orlov, N. A. Malafeyev.

*AEC

Selected Articles From the Russian
Periodical Dok Ak Nauk SSSR.

Vol CXXXVII, No 1, 1961, pp 113-115.
Initiation of Polymerization With
Electric Charges Formed on the
Boundary Between Phases, by
G. P. Gladyshev, S. R. Rafikov.

NLL M.3436

Vol CIX, No 1, 1956, pp 135-138.
9099900
Diffusion Kinetics Under Turbulent
Conditions of Mixing, by A. I. Fedorova,
G. L. Vidovich, 6 pp.

AEC Tr-5042

Vol CXCVI, No 3, 1961, pp 630-633.
9676729
The Nature of the Green Light Emis-
sion and the Composition of the
Products Obtained by Burning Boron
at 3100° K, by A. D. Rusin,
V. M. Tatevakiy, 7 pp.

FTD-TT-62-228

Scientific
Physics (Contd)

Selected Articles From the Russian
Periodical Dok Ak Nauk SSSR. (Contd)

Vol CXLI, No.1, 1961, pp 139-142.
9676757

FTD-TT-62-297

The Emission of Positive Molecular
Ions From Heated Surfaces in a
Vacuum, by E. Ya. Zandberg,
N. I. Ionov, 6 pp.

Vol CXLII, No 4, 1 Feb 1962, pp 785-787.
Reducing the Problem of Memory Allo-
cation During Program Compiling to
the Problem of Coloring Chart Vertices,
by A. P. Yershov, 8 pp.

JPRS 13792

Vol CXLII, No 5, 1962, pp 1050-1053.
Theory of a Follow-Up Gyroscope
System With Random Noise, by
L. Ya. Roytenberg.

*FTD-TT-62-770

Electronic Pneumographic, Plethysmo-
graphic and Blood Pressure Recording
Techniques, by K. Sh. Nadareyshvili,
6 pp.

RUSSIAN, per, Fiz Zhur SSSR, Vol XLVII,
No 11, 1961, pp 1432-1434.

JPRS 13590

Multichannel Photo-Electronic Rheograph,
by V. V. Suchkov, V. G. Filimonov, 9 pp.
RUSSIAN, per, Fiz Zhur SSSR, Vol XLVII,
No 11, 1961, pp 1434-1439.

JPRS 13590

Recording Photo-Plethysmograph,
by V. S. Moshkevich, I. I. Valikanov,
9 pp.

RUSSIAN, per, Fiz Zhur SSSR, Vol XLVII,
No 11, 1961, pp 1440-1444.

JPRS 13590

Polarizing Light Filters in Marine
Aerial Photography, by A. M. Kuzina.
RUSSIAN, per, Geodeziya i Aerofotos'-
yemka, No 6, 1960, pp 83-95.

*ERDL, Ft Belvoir T-1501

Scientific
Physics (Contd)

Selected Articles From the Russian
Periodical Inzhenerno-Fiz Zhur.

Vol II, No 3, 1959, pp 3-8, (DC-6819).
Condensation of Water Vapor From
Stationary Steam-Air Mixtures,
by P. M. Brdlik.

*JPRS

Vol IV, No 7, 1961, pp 84-90.
A Pulse Method for the Determination
of the Sublimation Energy of Metals
and Alloys, by N. A. Protopopov,
V. M. Kul'gavchuk.

*FTD-TT-62-797

Vol IV, No 10, 1961. 9676737
Calculation of the Viscosity of
Compressed Gases by the Similarity
Method, by G. P. Filippova,
I. P. Ishkin, 10 pp, (pp 9-14).

FTD-TT-62-84

The Effect of Non-Stationary Heat
on the Heat Transfer Coefficient
in Case of External Streamlining
of Solids, by L. I. Kudryashev,
A. A. Smirnov, 14 pp, (pp 21-29).

The Effect of the Material of the
Electrodes of Ignition of Explosive
Gas Mixtures by a Spark Discharge,
by V. A. Koloty, D. S. Gerchikov,
8 pp, (pp 97-100).

Vol IV, No 11, 1961, pp 105-108.
Experimental Study of Heat Transfer
From a Longitudinally Streamlined
Plate in a Laminar Boundary Layer,
by A. A. Zhukauskas, I. I. Zhyugzhda.

*FTD-TT-62-798

Scientific
Physics (Contd)

Selected Articles From the Russian
Periodical Inzhenerno-Fiz Zhur. (Contd)

Vol V, No 2, 1962.
Profiling of the Thermal Loading
Along a Reactor Channel With Considera-
tion of the Nonuniformities of
Heating of the Heat Transfer Agent,
by N. N. Ponomarev-Stepnay, 7 pp,
(pp 42-46).

JPRS 13610

Shielding Properties of Water,
Polyethylene, and Plexiglass, by
D. L. Broder, A. A. Kutuzov, et al,
6 pp, (pp 47-51).

JPRS 13609

A New Radiation Nomogram, by
Khel'gi Niyorsk, 23 pp.
RUSSIAN, per, Iz Ak Nauk Estonskoy
SSR, Ser Fiz-Matemat i Tekh Nauk,
Vol X, No 4, 1961, pp 329-339.

JPRS 13793

Synthesis of Reliable Systems for Un-
reliable Elements, by L. Leont'yev,
8 pp.
RUSSIAN, per, Iz Ak Nauk Latviyskoy
SSR, No 2(175), 1962, pp 51-57.

JPRS 13813

Mechanism of Initiation of Detonation
in Explosives, by K. K. Andreyev.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel
Tekh Nauk, Energ i Avtomat, No 4, 1959,
pp 188-197.

NLL M.4610

Investigation of Basic Characteristics
of Combustion of a Homogeneous Mixture of
an Open Turbulent Stream, by
E. A. Petrov, A. V. Talantov, 10 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved,
Aviats Tekh, No 3, 1959, pp 91-100.

ARS Journal
Vol XXXI, No 3
Mar 1961

Scientific
Physics (Contd)

- Turbulent Wake Behind a Blunt Body in a Bounded Stream, by G. N. Abramovich, I. S. Makarov, 15 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Aviats Tekh, No 1, 1961, pp 61-73. 9676330 FTD-TT-62-21
- The Calculation of the Kinetic Energy of a Plane Absorbed by the Wheel Brakes During the Landing Run, by V. S. Shishov, Yu. G. Korotkiy, 13 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Aviats Tekh, No 4, 1961, pp 149-155. 9676774 FTD-TT-62-379
- Physical Equations of the Mechanics of Bodies Undergoing Deformation in the Theory of Plastic Working of Metals, by I. Y. Tarnovskiy, A. A. Pozdeyev, L. V. Meandrov.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 4, 1961, pp 67-78. BISI 2557
- The Effect of the Radial Gap on the Work of the Axial Compressor Stage, by A. N. Anyutin, 12 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Energetika, No 9, 1961, pp 55-61. 9676733 FTD-TT-62-139
- Features of Heat Transfer Through a Wall With Longitudinal Fins at High Heat Fluxes, by V. K. Shcherbakov, 11 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Energetika, No 9, 1961, pp 76-82. 9676733 FTD-TT-62-139
- Varying the Excitation Interval in a Capillary Singing Flame, by V. N. Podymov, P. A. Norden, 8 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Fiz, No 1, 1961, pp 134-137. 9676527 FTD-TT-61-391

Scientific Physics (Contd)

The Use of the Doppler Effect for Investigating Processes in a Gas- Discharge Plasma, by Ye. V. Zagoryanskaya, P. S. Kireyev, 8 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Fiz, No 4, 1961, pp 163-167. 9676777

FTD-TT-62-323

Diamagnetic Properties of Plasma Excited in Argon and Neon, by D. A. Pulin, V. G. Stepanov, 6 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Fiz, No 5, 1961, pp 26-29. 9676538

FTD-TT-62-324

On the Compressibility of Liquids and Solids at Very High Pressures, by P. V. Matorin, 5 pp.
RUSSIAN, per, Nauch Dok Vysshey Shkoly, Fiz-Mat Nauk, No 3, 1959, pp 141-144.

AEC UCRL Tr-794(L)

Synthesis of Minerals by Diffusion, by L. G. Berg.
RUSSIAN, per, Priroda, No 7, 1957, pp 95-97.

*AFCRL Res Lib

Indentification of 3- Dimensional Objects, by V. S. Fayn.
RUSSIAN, per, Problemy Peredachi Informatsii, No 10, 1961, pp 49-56.

*FTD-TT-62-750

The Physico-Chemical and Structural Properties of Protein Monomolecular Layers Following Irradiation, by V. K. Tkach, V. V. Sidyakin.
RUSSIAN, per, Radiobiologiya, Vol I, No 5, 1961, pp 641-644.

*AEC

Synthesis of Discrete Stochastic Arrangements, by R. L. Skhirtladze, V. V. Chavchanidze, 8 pp.
RUSSIAN, per, Soobshcheniya Ak Nauk Cruz SSSR, Vol XXVII, No 5, 1961, pp 529-536.

JPRS 13585

Scientific
Physics (Contd)

Critical Heat Flux and Heat Transfer Coefficient During Boiling of Liquids in Channels Under Conditions of Forced Flow, by A. A. Ivashkevich, 12 pp.
RUSSIAN, per, Teploenergetika, Vol VIII, No 10, 1961, pp 74-78. 9099890

AEC Tr-5038

An Investigation of Luminescence Centers in Alkali Halide Phosphors With Different Concentrations of Activator and Microdefects of the Host Lattice, I. Phosphors Activated With Thallium, by T. A. Abdusadykov, 25 pp.

RUSSIAN, per, Trudy Inst Fiz i Astron Ak Nauk Eston SSR, No 10, 1959, pp 97-121. 9099216

AEC Tr-5002

Method of Determination of the Rate of Corrosion Processes Under Thin Films of Electrolyte, by N. D. Tomashov, G. K. Berukshits, 9 pp.

RUSSIAN, per, Trudy Inst Fiz Khim, Ak Nauk SSSR, No 7, 1959, pp 5-10. 9099895

AEC Tr-5009

Application of an Ohmic Capacitative Method for the Study of the Behavior of Protective Films During Corrosion of Metals in the Stressed Condition, by N. D. Tomashov, N. I. Isayev, 9 pp.

RUSSIAN, per, Trudy Inst Fiz Khim, Ak Nauk SSSR, No 7, 1959, pp 78-84. 9099897

AEC Tr-5007

Application of a Method of Polarization With Intermittent Current to the Study of the Corrosion Processes in Media of High Ohmic Resistance, by Yu. N. Nikhailovskiy, N. D. Tomashov, 14 pp.

RUSSIAN, per, Trudy Inst Fiz Khim, Ak Nauk SSSR, No 7, 1959, pp 85-95. 9099896

AEC Tr-5006

Convective Heat Exchange and Resistance in the Motion of Air in Short Tubes at Small Reynolds Numbers, by P. P. Fedorko, 32 pp.

RUSSIAN, per, Trudy Lenin Inst, Inzh Vod Transporta, No 24, 1957, pp 162-174.

AEC NP Tr-859

Scientific
Physics (Contd)

On the Problem of the Theory of Surface Ionization, by L. N. Dobretsov, 21 pp.
RUSSIAN, per, Trudy Leningrad Polytekh Inst, No 194, 1958, pp 143-153. 9099874

AEC UCRL Tr-783

Calculation of the Errors of Spectral Analysis by Continuous Measurements II,
by I. S. Fishman, A. L. Stolov.
RUSSIAN, per, Uchenye Zapiski Kazan'skogo Gosud Univ, Vol CXV, No 12, 1955,
pp 57-71.

*AEC

Measurement of the Diffusion Coefficient of Nitrogen in Liquid Oxygen, by
M. M. Bagrov.
RUSSIAN, per, Ukrain Fiz Zhur, Vol VI,
No 4, 1961, pp 486-488.

*FTD-TT-62-802

The Microtron, by A. P. Grinberg,
66 pp.
RUSSIAN, per, Uspekhi Fiz Nauk,
Vol LXXXV, No 3, 1961, pp 421-458. 9676340

FTD-TT-62-211

On the Oscillation of the Solutions of Some Differential Equations of Higher Order, by G. V. Anan'yeva, 7 pp.
RUSSIAN, per, Uspekh Matemat Nauk,
Vol XIV, No 1, 1959, pp 135-140.

ACSI H-6044
ID 2164465

Methods for the Practical Production of Optical Raster Gratings (Lattices) for High-Speed Filming, by L. V. Akimakina.
RUSSIAN, per, Uspekh Nauch Fotografii,
Vol VI, 1959, pp 152-154.

NLL M.4503

A Powerful Research Reactor, 9 pp.
RUSSIAN, per, Vest Ak Nauk SSSR,
Vol XXXI, No 10, 1961, pp 60-64.

Navy Tr 2935/ONI 897

New Effective Source of Fast Electrons, by S. P. Kapitsa, 8 pp.
RUSSIAN, per, Vest Ak Nauk SSSR,
Vol XXXI, No 10, 1961, pp 65-69.

Navy Tr 2935/ONI 897

Scientific
Physics (Contd)

A New Class of Internal Combustion,
19 pp.

RUSSIAN, per, Vest Ak Nauk SSSR,
Vol XXXI, No 10, 1960, pp 78-90.

Navy Tr 2935/ONI 897

Quadrupolar and Dipolar γ Radiation
of Nuclei, by A. Migdal.

RUSSIAN, per, Zhur Eksper i Teoret
Fiz, Vol XV, 1945, pp 81-88.

*AEC

Selected Articles From the Russian
Periodical Zhur Fiz Khim.

Vol V, 1934, pp 32-37.

The Combined Effect of Radiation
and Catalysts, by Ya. K. Suirkin,
I. N. Godnev.

*AEC

Vol VI, 1935, pp 189-205.

Photochemical Reactions of Absorbed
Iodine Molecules, by A. Terenin.

*AEC

Vol XIII, 1939, pp 586-592.

Photochemical Decomposition of
Ammonia Adsorbed on Crystals of
Copper Sulfate and Magnesium Oxide,
by V. Beloselvskiy.

*AEC

Vol XIV, 1940.

Absorption of Organic Vapors on
Organic Absorbents and the
Quenching of Fluorescence, by
S. P. Tibilov, (pp 953-963).

*AEC

Optical Investigations of Activated
Absorption, by A. N. Terenin,
(pp 1362-1369).

Scientific
Physics (Contd)

Selected Articles From the Russian
Periodical Zhur Fiz Khim. (Contd)

Vol XV, 1941, pp 145-155. *AEC

Photogalvanic Processes on Silver
Electrodes, by V. I. Veselovskiy.

Vol XX, No 7, 1945, pp 679-692.
9093458 AEC NP Tr-869

The Discrete Structure of Charge
in a Double Layer, by B. V. Ershler,
24 pp.

Vol XXII, 1948, pp 1427-1442.
Sensitization Mechanism of the Photoelectro-
chemical Process at a Zinc-Zinc
Oxide Electrode, by V. I.
Veselovskiy.

Vol XXXV, No 10, 1961, pp 2341-2347.
9676531 FTD-TT-62-143
Effect of Active Particles of Products
of Combustion on the Limits of Igni-
tion in Turbulent Flow, by S. M. Kogarko,
V. V. Mikheyev, V. Ya. Basevich,
12 pp.

Reversing the Desensitizing Effect
of Moisture on Photographic Emulsions,
by K. L. Vendrovskiy, V. I. Sheberstov.
RUSSIAN, per, Zhur Nauch i Prik Foto
Kinemat, Vol V, No 4, 1960, pp 295-296. NLL M.4500

Photographic Education in Colleges
and Universities, by Yu. N. Gorokhovskiy,
4 pp.
RUSSIAN, per, Zhur Nauch i Prik Foto
i Kinemat, Vol VII, No 1, 1962,
pp 76, 77. JPRS 13812

Scientific
Physics (Contd)

Third Hungarian Conference on Scientific and Applied Photography, by V. I. Uspenskiy, I. I. Levkoyev, et al, 6 pp.
RUSSIAN, per, Zhur Nauch i Prik Foto i Kinemat, Vol VII, No 1, 1962, pp 78-80.

JPRS 13812

Selected Articles From the Russian Periodical Zhur Prik Mekh i Tekh Fiz.

No 1, 1960, pp 18-20. 9099909
Detonation of Acetylene, by R. I. Solukhin, 5 pp.

AEC Tr-5036

No 4, 1960, pp 49, 50. 9093457
Directional Throwout of Ground With the Help of H. E., by V. M. Kuznetsov, M. A. Lavrent'yev, E. N. Sher, 4 pp.

AEC UCRL Tr-805(L)

No 6, 1961. 9676722
Concerning the Behaviour of Certain Plasma States With Anisotropic Distribution of Velocities in a Magnetic Field, by G. M. Zaslavskiy, S. S. Moiseyev, 9 pp, (pp 24-28).

FTD-TT-62-338

The Operation of a Plasmatron Having an Air-Stabilized Arc, by G. Yu. Dautov, M. F. Zhukov, V. Ya. Samolyakov, 14 pp, (pp 29-35).

On the Mechanism of the Lightning Discharge, by A. S. Alizade.
RUSSIAN, per, Zhur Tekh Fiz, Vol XXI, No 6, 1951, pp 652-657.

CSIRO

The Role of the Emission Channel in an Ion Source, by S. N. Popov, 11 pp.
RUSSIAN, per, Zhur Tekh Fiz, Vol XXXI, No 12, 1961, pp 1431-1438.
9676350

FTD-TT-62-435

Scientific
Physics (Contd)

Research of the Luminescence Occurring
During Electrical Discharge of Thin
Wires, by M. P. Vanyukov, V. I. Isayenko.
RUSSIAN, per, Zhur Tekh Fiz, Vol XXXII,
No 2, 1962, pp 197-201.

*FTD-TT-62-777

Numerical Calculation of High Tempera-
ture Laminar Flows, by P. P. Koryavov,
16 pp.
RUSSIAN, per, Zhur Vychislitel Matemat Fiz, Vol I, No 5, 1961, pp 856-868.
9676355

FTD-TT-62-234

Gravity Generated by Light, by
M. E. Gertsenshteyn.
RUSSIAN, per, Znaniye Sila, No 12,
1961, pp 11, 12.

*ACSI I-1376
ID 2198527

A High Intensity Ion Source, by
N. S. Zinchenko.
RUSSIAN, Patent No 140,918, Applica-
tion No 670444/26.

*FTD-TT-62-758

A Method for Direct Version of Heat
and Electricity, by I. K. Zul'sel'dt.
RUSSIAN, Patent No 140,920, Applica-
tion No 689180/24.

*FTD-TT-62-759

Scientific
Physics (Contd)

The Problem of Light Energy Utilization in Plants, by Shen Yun-kang, 17 pp.
CHINESE, per, K'o-hsueh T'ung-pao, No 10, 1961, pp 36-50.

JPRS 13647

Selected Translations From "Physics Bulletin", No 6, June 1960, (NY-7092).
CHINESE, per, Wu-li T'ung-pao, No 6, 1960, pp 270-272, 241-246, 254-258.

*JPRS

Bronze With Large Secondary Emission for Superonthecon, by J. Prchlik, B. Gadzuk.
CZECH, per, Ceskoslovensky Casopis pro Fysiku, No 5, 1960, pp 433.

*FTD-TT-62-751

Research at C.E.N. in the Field of Processing by Volatilization, by J. Schmits, 4 pp.
FRENCH, rpt, Report CEN-R-2069, 11 Jan 1962.

AEC Tr-5001

Thermodynamic Considerations on Reactions in Fuel Cells, 5 pp.
FRENCH, rpt, Considerations Thermodynamiques sur les Reactions dans les Piles a Combustibles, No 5.789, 13 Jul 1961, 18 pp.

ACSI I-1162-A
ID 2196080

Study of the Effect of Pre-Treatment of Electrodes on the Reduction of Dissolved Oxygen, 9 pp.
FRENCH, rpt, Etude de l'Influence de Pretraitements des Electrodes sur la Reduction de l'Oxygene Dissous, No 5.883, 16 Oct 1961, 21 pp.

ACSI I-1162-B
ID 2196080

Performance-Limiting Phenomena in Hydrogen-Palladium Electrodes, 20 pp.
FRENCH, rpt, Phenomenes Limitateurs des Performances dans les Electrodes a Hydrogene-Palladium, No 5.930, 23 Nov 1961, 40 pp.

ACSI I-1162-C
ID 2196080

Research Program of the Fuel Cells Group, 5 pp.
FRENCH, rpt, Programme de Recherches du Groupe Piles a Combustibles, No 5911, 1 Nov 1961, 8 pp.

ACSI I-1162-D
ID 2196080

Scientific
Physics (Contd)

Measurement of pH Under Pressure at Elevated
Temperatures, by Marcell le Peintre, 20 pp.
FRENCH, per, Bull Soc Franc Electriciens,
Vol VIII, No 1, 1960, pp 585-591.

AEC HW Tr-35

Mineral Synthesis in Organic Media, by
R. Weil, R. Hogart, J. C. Monier.
FRENCH, per, Bull de la Soc Franca de
Mineralogie et de Cristallographie,
Vol LXXVII, 1954, pp 1084-1101.

*AFCRL Res Lib

Radiant Heating. Temperature Limit of the
Ceiling and of Elevated Panels, by A.
Missonard.
FRENCH, per, Chaleur et Industrie, Vol XXXV,
No 352, 1954, pp 333-348.

CSIRO

Observation of the Movements of the
Paraconical Pendulum, by Maurice Allais, 6 pp.
FRENCH, per, Comptes Rendus, Vol CCXLV,
13 Nov 1957, pp 1697-1700.

AEC SCL-T-387

Harmonic Analysis of the Movements of the
Paraconical Pendulum, by Maurice Allais, 5 pp.
FRENCH, per, Comptes Rendus, Vol CCXLV,
25 Nov 1957, pp 1875-1878.

AEC SCL-T-386

Theory of the Paraconical Pendulum and the
Lunar-Solar Influence, by Maurice Allais, 5 pp.
FRENCH, per, Comptes Rendus, Vol CCXLV,
16 Dec 1957, pp 2170-2173.

AEC SCL-T-383

Influence of Temperature on the Two Series
of Bands of the Spectrum of Green Fluorescence
From Pure Cadmium Sulfide at Low Temperature,
by Marguerite Bancie-Grillot, Evgueni F.
Gross, 5 pp.
FRENCH, per, Comptes Rendus, Academie des
Sciences, Vol CCL, No 17, Apr 25, 1960,
pp 2868-2870. 9676322

FTD-TT-62-131

Scientific
Physics (Contd)

Survey of the Use of Inhibitors in Permitted Explosives, by J. Boucart, 30 pp.

FRENCH, per, Explosifs, Vol XIII, No 4, 1960,
pp 127-140. 9093431

U.K. Atomic Energy
Authority AWRE Tr-28

Statistical Analysis of the Heterogeneous Reactions in the Knudsen Dynamic Range, by Pierre LeGoff.

FRENCH, per, Journal de Chimie Physique,
Vol LIII, 1956, pp 359-368.

*AFCRL Res Lib

Study of Phosphating Films With X-Ray and Electron Defraction, by J. J. Trillat,
J. Saison.

FRENCH, per, Memoires Scientifique de la Revue Metallurgie, Vol LVIII, No 7, 1961,
pp 496-502.

*BISI 2787

Self-Diffusion of Ions in Poly Crystalline Alkali Halides, by J. F. Laurent, J. Benard.
FRENCH, per, Physics and Chem Solids, Vol VII,
1958, pp 218-227.

*AEC

On the Theory of Chemisorption, by O. Maetsch,
16 pp.

FRENCH, per, Physics and Chem Solids, Vol XXI,
Oct 1961, pp 33-39.

AEC SCL-T-402

Glass-Forming Substances and the Periodic Table of Elements, by A. Winter-Klein.
FRENCH, per, Verres et Refractaires, Vol IX,
1955, pp 147-156.

CSIRO

Photographic Film-Plate for the Exact Measure of the Quantity or Dose of High Energy Radiation, by K. Becker, E. Zeitler,
E. Klein.
FRENCH, Patent No. 1,242,907.

*AEC

Encyclopedia of Physics, Volume XXVIII,
Spectroscopy II, by S. Flugge.
GERMAN, bk, 1957, pp 205-295.

*ERDL, Ft Belvoir T-255

**Scientific
Physics (Contd)**

Electromagnetic Waveguides and Cavities,
by Georg Goubau, 672 pp.
GERMAN, bk, Elektromagnetische Wellenleiter
und Hohlraume, Physik und Technik, No 5,
1955, 470 pp.

AEC Tr-3926

**Selected Articles From the German Periodical
Annalen der Physik.**

Vol XXXV, 1911, pp 617-678.
Temperature and Magnetization Influence
Through Selective Absorption and
Fluorescent Spectra, Part II, by
H. Dubois, G. J. Elias.

*AFCRL Res Lib

Vol II, No 6, 1948, pp 103-112.
The Degeneracy of the Electron Gas Resulting
From Pair Production, by H. Koppe, 12 pp.

AEC UCRL Tr-760(L)

Vol XIII, 1953.
Cluster Theory Investigation of Electron
Bands in Diamond Lattices, by W. Doring,
V. Zehler, (pp 215-228).

*AFCRL Res Lib

Calculation of Energy Bands in Diamond
Crystals, by V. Zehler, (pp 229-252).

Vol VII, No 2, 1958, pp 130-145. 9099887
On the Evaluation of Conductivity Glow
Curves, by K. W. Boeer, S. Oberlaender,
J. Voigt, 45 pp.

AEC NP Tr-840

Measurement of Quantum Radiation in the
Energy Range From 3-30kev By Means of Large-
Area Proportional Counting Tubes, by H. Fessler,
H. Kiefer, R. Maushart, 15 pp.
GERMAN, per, Atompraxis, Vol VII, No 11,
1961, pp 401-407. 9099889

AEC Tr-5041

Scientific
Physics (Contd)

Simulation of Growth in Sinapos Alba by
Means of X-Ray Irradiation, by Th. von
Kreybig, R. Schagen, 5 pp.
GERMAN, per, Atompraxis, Vol VIII, Jan 1962,
pp 6-7. 9099892

AEC Tr-5016

Single Component Systems as a Basis of
Scientific Ceramic Investigations, by
E. Ryschkewitsch, 13 pp.
GERMAN, per, Ber Deutsche Keram Ges, Vol XVI.
1935, pp 111-117.

AEC Tr-5019

On Payrole Radicals, by Richard Kuhn,
Helmut Kainer.
GERMAN, per, Biochimica et Biophysica Acta,
Vol XII, 1953, 325-328.

ERDL, Ft Belvoir T-1506

Calottan-Sheets Made of Light Metal, a New
Building Element for Light Construction, by
H. G. Schiller.
GERMAN, per, Blech, No 1, 1960, 3pp.

ERDL, Ft Belvoir T-1251

Endothermic Effect in the Softening Zone
of Silicate Glasses, by F. Eckert,
I. Westerman.
GERMAN, per, Glastechnische Berichte,
Vol X, 1932, pp 30-37.

CSIRO

On Thermoelectric Phenomena in Glass, by
W. Oldekop.
GERMAN, per, Glastechnische Berichte,
Vol XXIX, No 3, 1950, pp 73-78.

CSIRO

A Source of Polarized Deuterons and Detection of
the Polarization by the (d, T) Reaction, by
H. Rudin, H. R. Striebel, E. Baumgartner,
28 pp.
GERMAN, per, Helvetica Physica Acta, Vol XXXIV,
No 1, 1961, pp 58-84. 9093432

AERE, Harwell Tr-380

Scientific
Physics (Contd)

The Production of Radiation Defects
Considered From the Point of View of
Energy Relations, by M. Balarin,
O. Hauser, 20 pp.
GERMAN, per, Kernenergie, Vol III, No 10/11,
1960, pp 973-978. 9099882

AEC NP Tr-861

Acoustic Application of Foamed Materials,
by H. Oberst.
GERMAN, per, Kunststoffe, Vol XLVI,
No 5, 1956, pp 190-194.

CSIRO

Combustibility and Inflammability of
Thin Films. Development of an Improved
Test Apparatus, by H. Mendrzyk.
GERMAN, per, Kunststoffe, Vol XLVI,
1956, pp 489-496.

CSIRO

Thoughts on the Extrapolation in Stress-
Rupture Experiments, by Gerhard Krueger,
21 pp.
GERMAN, per, Neue Hutte, Vol V, No 8,
1960, pp 481-487.

AEC CRGM-1034

Theoretical Investigations of Reactivity
Measurement in a Reactor With a Reflector,
Using a Pulsed Neutron Source, by A. Fraude.
GERMAN, per, Nukleonik, Vol IV, No 2, 1962,
pp 84-91.

*AEC

Problems and Results of the Film Dosimetry
of Ionising Radiations, by K. Becker, 52 pp.
GERMAN, per, Photographische Korrespondenz,
Vol XCV, No 6-8, 1960, pp 83-88, 99-104,
115-125. 9099888

AEC NP Tr-868

Model Experiments to Determine Flow Conditions
in Regenerative Chambers and Deductions to be
Drawn From the Results as to Optimal Dimensions,
by R. Turk.
GERMAN, per, Radex Rundschau, No 6, 1961,
pp 802-809.

BISI 2587

Scientific
Physics (Contd)

Temperature, Material Transfer and Physical Properties of Slags of Unalloyed Welding Electrodes, by W. Hummitzsch.
GERMAN, per, Schweissen und Schneiden, Vol XIII, May 1961, pp 187-195.

BISI 2617

Theoretical and Experimental Study of the Dust Distribution of a Smoke Vane, by R. Trappenberg.
GERMAN, per, Staub, Vol XXXIX, 1955, pp 5-20.

CSIRO

Effect During Intermittent Evaporation of the Tungsten Anode of a Flash X-Ray Tube, by K. Hermann, et al.
GERMAN, per, Z. Angewandte Physik, Vol VI, No 4, 1954, pp 154-156.

CSIRO

X-Ray Conductivity of Amorphous Selenium Deposits, by R. Eppe.
GERMAN, per, Z. fuer Angewandte Physik, Vol IX, No 6, 1957, pp 261-268.

CSIRO

Form of Compression Shock in a Freely Expanded Gas-Jet, by Konrad Bier, Berndt Schmidt.
GERMAN, per, Z fuer Angewandte Physik, Vol XIII, No 11, 1961, pp 493-500.

*AEC

Theory of Superconductivity, by Werner Heisenberg.
GERMAN, per, Z fuer Naturforschung, Vol IIA 1947, pp 185-201.

*AEC

The Formation and Quasi-Stationary State of a Powerful Toroidal Pinch Discharge in Hydrogen, by U. Grossmann-Doerth.
GERMAN, per, Z fuer Naturforschung, Vol XVIa, No 12, 1961, pp 1290-1312.

*AEC

Scientific
Physics (Contd)

Selected Articles From the German
Periodical Z fuer Physik.

Vol LXX, 1931, p 353.
Slow Energy Loss of Electrons in Hydrogen,
by Hans Ramien.

*AFCRL Res Lib

Vol CII, 1936, pp 551-561.
The Processes Occurring at the Cathode of
Arc Discharges, by O. Becker, K. Sommermeyer,
22 pp.

AEC NP Tr-834

Vol CXLV, No 1, 1956, pp 44-47.
New Method of Measuring Extremely Small
Ion Current in High Vacuum, by W. Schutze,
F. Bernhard.

CSIRO

Vol CLII, 1958, pp 261-271.
The Angular Distribution of Protons in the
Direct Photonuclear Effect, by J. Eickler.

*AEC

Vol CLIV, 1959, pp 495-511. 9093433
The Optical Absorption of Thallium
Chloride, by Horst Zinngrebe, 20 pp.

AEC SCL-T-398

Selected Articles From the German Periodical
Z fuer Physikalische Chem.

Vol XXIB, 1933, pp 42-47.
On the Nature of the Electrical Con-
ductivity of Alpha-Silver Sulfide, Part I,
by Carl Wagner, 11 pp.

AEC UCRL
Tr-753 (L)

Vol CLXXXIX (A), 1941, pp 126-130. 9099217
Calculation of Velocity Constants From
Experimental Data, by J. A. Christiansen,
8 pp.

AEC Tr-5017

Vol CCVII, 1957, pp 340-349. 9099886
The Determination of Ion Adsorption and
Zero-Point Potential With the Aid of
Labelled Atoms, by N. A. Balashova, 15 pp.

AEC NP Tr-870

Scientific
Physics (Contd)

Selected Articles From the German Periodical
Z fuer Physikalische Chem. (Contd)

Vol CCXV, 1960.

Plasma Composition, Plasma Density, Enthalpy
and Specific Heat of Nitrogen, Nitrogen
Monoxide and Air at 1, 3, 10 and 30 ATM. and
at Temperatures From 1000 to 30000°, by K. F.
Burhorn, R. Wienecke, 19 pp, (pp 269-284).

AEC NP Tr-839

Plasma Composition, Plasma Density, Enthalpy
and Specific Heat of Hydrogen and Water at
1, 3, 10 and 30 ATM. and At Temperatures
From 1000 to 30000°, by K. F. Burhorn,
R. Wienecke, 10 pp, (pp 285-292).

AEC NP Tr-838

Heavy-Water Reactors Cooled by Light-Steam
and Water Mixtures, by M. Silvestri, 9 pp.
ITALIAN, per, Energia Nucleare, Vol VIII,
1961, pp 209-212.

NRCC TT-965

The Construction of the Effective Voltage
Diagram of Continuous X-Rays and Determination
of the Degree of Monochromatisation by Spectral
Analysis, by K. Minami, 11 pp.
JAPANESE, per, Japan Atomic Energy Research
Inst, JAERI 5002, pp 243-246. 9099885

AEC NP Tr-833

A Study of the Gelatinization Process of
Nitrocellulose and the Formation of
Dynamite, Report No 1, by Takehisa Sakurai,
11 pp.
JAPANESE, per, Journal of the Industrial
Explosives Society, Vol XI, No 2, pp 105-111.

Navy Tr 3128/ONI 899

Scientific
Physics (Contd)

Selected Articles From the Japanese Periodical
Nippon Genshiryoku Gakkaishi.

Vol II, No 2, 1960.

Synthesis of Reactor Control Systems,
Including the Consideration of Radial
Spatial Behaviour, by T. Kagayama, 30 pp,
(pp 78-88). 9099877

U.K. Atomic Energy
Authority AERE,
Harwell Tr-879

Isotope Separation by the Separating
Nozzle Process, by H. Mikami, Y. Oyama,
14 pp, (pp 291-295).

AEC KFK Tr-60

Vol III, 1961, pp 1-8. 9099904
Analysis of Spert-1 Experiment, by
Shigenori Hayashi, Jiro Wakabayashi,
22 pp.

AEC Tr-4643

Vol III, No 10, 1961, pp 763-766.
The Study of Lattice Defects in Graphite
by the Emanation of Fission-Product Rare
Gas, by S. Ichiba.

*AEC

Vol III, Dec 1961.
On the Isotope Separation by Counter-
Current Gas Centrifuge, (II). Relation
Between Feed Rate and Separative Power, by
Akira Kanagawa, Yoshitoshi Oyama, (pp 918-922).

*AEC

An Analysis of Gaseous Diffusion Separating
Unit, by Jun Oishi, Yoichi Matsumura,
Kunio Higashi, (pp 923-928).

Scientific
Physics (Contd)

Design of Plasma-Jet Generators and Their Spectroscopic Measurements, (Part) I., by Tadao Horis, Tsutomu Ishimura, Yoshiaki Nakajima, 10 pp.
JAPANESE, per, Oyo Butsuri, Vol XXIX, No 7, 1960, pp 438-442. 9099867

AEC SCL-T-403

The Image Transmission Carrier in a Photographic System, by K. Kinoshita, et al.
JAPANESE, per, Techn J Japan Broadcast Corp, Vol XII, No 5, 1960, pp 373-386.

NLL M.4490

Radioactive Contamination of Air and Water in Poland in 1959.

POLISH, bk, Skazenia Radioktywne Powietrza i Wody w Polsce w 1959, Roku, 1960, Report NP-9934, 109 pp.

AEC GAT-Z-5022

Magnetohydrodynamic Generators, by

Wojciech Brzozowski, 16 pp.

POLISH, per, Nukleonika, Vol VI, No 9, 1961, pp 555-563. 9676763

FTD-TT-62-120

Synthesis of Ferroelectrics of the Barium Titanata Type BaTiO₃, by Zdzislaw Pajak.

POLISH, per, Postepy Fizyki, Vol V, No 2, 1954, pp 212-219.

*AEC

Nomogram for Calculating the Attenuation of Air Shock Waves in Tunnels, by Siwert Eriksson.

SWEDISH, rpt, Kungl Fortifikationsforvaltningen Forskningssektionen, Report No 103:24, 1961.

*AEC

Scientific
Space Research

Artificial Earth Satellites.
RUSSIAN, bk, Iskusstvennyy Sputnik
Zemli, No 7-12, 1961.

*CB

Biology and the Conquest of Space,
by N. Sisakyan, 10 pp.
RUSSIAN, per, Aviatsiya i Kosmonavtika,
No 2, 1962, pp 24-30.

JPRS 13708

An Astroliner Starts From the Cosmos,
by Nikolay Varvarov, 9 pp.
RUSSIAN, np, Ekon Gazeta, 1 Jan 1962,
p 34. 9676770

FTD-TT-62-422

A Cosmic Necklace for Our Planet,
by Nikolay Varvarov, 15 pp.
RUSSIAN, np, Ekon Gazeta, No 7,
12 Feb 1962, p 32, 33.

JPRS 13635

Cosmic Rays and Outer Space, by
S. N. Vernov, 18 pp.
RUSSIAN, per, Iz Ak Nauk SSSR,
Vol XXX, No 8, 1960, pp 10-26.

ARS Journal
Vol XXXI, No 3
Mar 1961

Blacksmiths of Thunder, a Report From
the Conveyer of Cosmic Rockets, by
Ya. Kirillov, 4 pp.
RUSSIAN, np, Komsomol Pravda,
20 Aug 1961, p 4. 9676341

FTD-TT-62-201

Before a Rocket Launch, by B. Sergeyev,
4 pp.
RUSSIAN, np, Komsomol Pravda, 27 Jan
1962, p 4. 9676352

FTD-TT-62-359

The State of Weightlessness, by
N. Gurovskiy, M. Gerd, 5 pp.
RUSSIAN, np, Komsomol' Znamya,
30/31 Jan 1962, pp 1-4.

JPRS 13619

Notes Written in Space, the Logbooks
of Yuri Gagarin and Gherman Titov,
by F. Lushnikov, 5 pp.
RUSSIAN, np, Krasnaya Zvezda, 31 Dec 1961,
p 4. 9676540

FTD-TT-62-345

**Scientific
Space Research (Contd)**

Cosmonauts, by Ye. Petrov, 16 pp.
RUSSIAN, np, Krasnaya Zvezda,
13 Feb 1962, p 2, 15 Feb 1962, p 2.
9676539

FTD-TT-62-344

Space in the Military Objectives of
the West, by M. Sakharov, 8 pp.
RUSSIAN, per, Mirovaya Ekon i
Mezhdunarodnyye Otnosheniya, No 3,
1962, pp 106-109.

JPRS 13574

Return From the Cosmos, by V. A. Parfenov,
9 pp.
RUSSIAN, per, Nauka i Zhizn, No 6,
1960, pp 31-33. 9676734

FTD-TT-62-119

Over the Routes of the Cosmos, by
A. Golikov, I. Smirnov, 9 pp.
RUSSIAN, per, Ogonek, Vol XXXIX,
No 14, 1961, pp 2, 3. 9676528

FTD-TT-62-2

Flights Into the Cosmos, by
V. Petrov, 10 pp.
RUSSIAN, per, Radio, No 12, 1961,
pp 3-5. 9676537

FTD-TT-62-316

A Flame Is Tamed, by Yu. Nikolayev,
4 pp.
RUSSIAN, np, Sovetskaya Rossiya,
16 Aug 1961, p 3. 9676535

FTD-TT-62-275

Man and the Cosmos, by V. Timakov,
7 pp.
RUSSIAN, per, Sovetskiy Krasny Krest,
No 9(49), Jan/Feb 1960, pp 12, 13.
9676739

FTD-TT-61-256

Man Will Fly to the Stars, by
V. V. Parin, 8 pp.
RUSSIAN, per, Zdorov'ye, No 11(71),
1960, pp 2, 3. 9676740

FTD-TT-61-257

Scientific
Space Research (Contd)

Man's First Flight in Cosmic Space,
8 pp.

BULGARIAN, per, Tekhnika, Vol X,
No 4, 1961, 3 pp. 9676761

FTD-TT-62-155

Mastering the Universe and Rocket
Transportation, by G. I. Pokrovski,
9 pp.

CZECH, per, Letecky Obzor, No 12, 1961,
pp 385-387. 9676347

FTD-TT-62-152

Rockets Versus Rockets, by W. von Hempel,
6 pp.

GERMAN, per, Jugend und Technik, No 3,
1962, pp 43-45.

ACSI I-1311
ID 2196121

The Present Knowledge of the Atmosphere
of the Planets, by A. Bohrmann, 13 pp.

GERMAN, per, Raketentechnik und
Raumfahrtforschung, Vol V, No 4, 1961,
pp 129-132. 9676758

FTD-TT-62-279

Soviet Rockets Are Most Modern Weapon
in World, by Pereces Bela.

HUNGARIAN, np, Nepszabadsag, 21 Feb 1962.

*FTD-TT-62-763

**Scientific
Miscellaneous**

Selected Articles From the Russian
Book Mashinnyy Perevod i Prikladnaya
Lingvistika.

No 5, 1961.

JPRS 13761

An Information Language for Geometry
and an Algorithm for Translating From
the Russian Language Into an Information
Language, by A. V. Kuznetsov, Ye. V.
Paducheva, et al, 18 pp, (pp 3-21).

Experiment of Multilingual Translation
of Numerals on the "Ural" Machine,
by G. S. Tseytin, 9 pp, (pp 22-26).

Structure of the Algorithm for Gramma-
tical Analysis (for Machine Translation
From the Russian Language), by
T. M. Nikolayeva, 29 pp, (pp 27-44).

On the Formalization of Context, by
G. V. Kolshanskiy, 8 pp, (pp 45-50).

Some Specifications of the Zipf
Probability Model, by D. M. Segal,
9 pp, (pp 51-55).

Machine Breakdown of the Georgian
Sentence, by G. B. Chikoidze, 10 pp,
(pp 56-65).

Word Order in Independent Synthesis
of Russian Sentences, by V. K. Voynov,
I. S. Kravchuk, et al, 6 pp, (pp 66-72).

An Interesting Hypothesis of Yngve,
by I. I. Revzin, 12 pp, (pp 73-80).

Essays on and in Machine Translation
by the Cambridge Language Research
Unit, Cambridge, England, June 1959,
by A. K. Zholkovskiy, et al, 14 pp,
(pp 81-89).

**Scientific
Miscellaneous (Contd)**

**Selected Articles From the Russian
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Lingvistika. (Contd)**

- No 5, 1961. JPRS 13761
Intervuz Scientific Conference on
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et al, 6 pp, (pp 93-99).
- No 6, 1961. JPRS 13790
Automatons and Living Beings, by
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- An Information Language for Geometry
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et al, 7 pp, (pp 9-18).
- Questions on Mathematical Linguistics
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et al, 12 pp, (pp 19-38).
- Simultaneous Recognition of Human
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- A Method of Synthesizing Sentences in
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- Formal Analysis of Passive Constructions
in the Russian Language, by S. Ye. Nikitina,
8 pp, (pp 89-100.)

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SSSR, No 2, 1961.

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One Approach to the Construction of a
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by S. S. Belokrinitskaya, G. A. Volchek,
et al, 16 pp, (pp 5-16).

On the Fundamental Use of Sense in
Machine Translations, by A. K. Zholkovskiy,
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Machine Translation and Establishing
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by V. V. Ivanov, 29 pp, (pp 47-69).

The Operational Form of an Algorithm
for Machine Translation, by V. A. Voronin,
17 pp, (pp 70-84).

On Standard Operators for an Algorithm
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62 pp, (pp 85-134).

A System of Independent Configurational
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44 pp, (pp 135-172).

The Structure and Nature of a Glossary
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On Solving Conversion Homonymy During
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**A Description of the Structure of In-
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**On the Construction of Rules for Analy-
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**On Establishing the Syntactical Con-
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**An Approach to the Problem of Dis-
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**Syntactical Indicators for Words
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**On an Algorithm for Independent Morpho-
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**The Principles of Syntactical Analysis
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The Construction of Sentences in Inde-
pendent Synthesis of Russian Text Matter,
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An Algorithm for Ordering Words in a
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The Basic Characteristics of a
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An Analysis of Closed Constructions in
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The Analysis of Auxiliary Words in
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The Linguistic Problems of Translations
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On the Acceptability of Phonological
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An Experiment in Constructing a System
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Problems in the Design of a Scan-
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Experiments in Training a Machine to Dis-
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43 pp.
RUSSIAN, per, Avtomat i Telemekh, Vol XXIII,
No 3, 1962, pp 349-364.

JPRS 13694

In the Committee on Inventions and Dis-
coveries at the Council of Ministers of
the USSR, 4 pp.
RUSSIAN, per, Byul Izobreteniy, No 17,
Sep 1961, pp 5-7.

JPRS 13718

The Twelfth Congress of the Communist
Party of the Soviet Union and the Problems
of Science, 5 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXLI,
No 2, 11 Nov 1961.

JPRS 13788

Leningrad Chemists March Ahead, by
V. Rumyantsev, 5 pp.
RUSSIAN, np, Ekon Gazeta, No 18,
4 Dec 1961, p 20.

JPRS 13788

The Strong Points of Scientific Re-
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RUSSIAN, np, Ekon Gazeta, No 3(24),
15 Jan 1962, p 17.

JPRS 13788

Scientific
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Selected Articles From the Russian
Newspaper Izvestiya.

No 156, 2 Jul 1961, p 3.
Science and Social Progress, by
N. Semenov, 9 pp.

JPRS 13788

No 161, 7 Jul 1961, p 4.
Strengthening the Bond Between
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JPRS 13788

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Report on Siberian Science, by
B. Koltovoy, M. Burenkov, 4 pp.

JPRS 13788

19 Dec 1961, pp 3, 4.
From the Committee on Lenin
Prizes in the Field of Science
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JPRS 12341

First Scientific Conference of ONII
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Institute] in the City of Gorno-Altaysk,
by V. S. Belousova, 6 pp.
RUSSIAN, per, Iz Sibirskogo Otdel Ak
Nauk SSSR, No 9, 1961, pp 128-130.

JPRS 13670

Steps to Improve the Coordination of
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SSR, 5 pp.
RUSSIAN, np, Kommunist, 1 Oct 1961, p 1.

JPRS 13788

The Future of Science, by P. L. Kapitsa,
(SF-2240).
RUSSIAN, per, Nauka i Zhizn', Vol XXIX,
No 3, 1962, pp 18-23, 96, 97.

*JPRS

The Role of Science in Higher Education,
by V. P. Elyutin, 7 pp.
RUSSIAN, np, Pravda, No 186, 5 Jul
1961, p 6.

JPRS 13788

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Science and Industry, 4 pp.
RUSSIAN, np, Pravda, No 214,
23 Jul 1961, p 1.

JPRS 13788

Science Is Becoming a Decisive Force,
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RUSSIAN, np, Pravda Vostoka, 7 Sep 1961,
p 2.

JPRS 13788

Science and Science Friction, by
I. Ya. Yefremov, (NY-7087).
RUSSIAN, per, Priroda, No 12, 1961,
pp 41-47.

*JPRS

A Pledge for the Coordination of Scientific Research, by B. Paremskiy, 4 pp.
RUSSIAN, np, Sovetskaya Belorussiya,
23 Sep 1961, p 2.

JPRS 13788

Man Beings to Control Life Processes,
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RUSSIAN, np, Sovetskaya Estoniya,
No 234, 3 Oct 1961, p 2.

JPRS 13788

Science Versus Religion, by A. Putilin,
5 pp.
RUSSIAN, np, Sovetskaya Moldaviya,
6 Sep 1961, pp 3, 4.

JPRS 13788

Resolutions of the Twelfth Congress of the CPSU and the Tasks Confronting Scientists, by S. R. Sergiyenko, 7 pp.
RUSSIAN, np, Turkmenskaya Iskra, No 270,
16 Nov 1961, pp 3, 4.

JPRS 13788

Neopositivist Gnoeology and the Sign Theory of Language, by L. O. Reznikov, (SF-2261).
RUSSIAN, per, Voprosy Filosofii, Vol XVI,
No 2, 1962, pp 99-109.

*JPRS

**Scientific
Miscellaneous (Contd)**

Some Features of the Contemporary Development of Science, by V. I. Siforov, (SF-2261).

RUSSIAN, per, Voprosy Filosofii, Vol XVI, No 2, 1962, pp 151-153.

*JPRS

Analytic Chemistry and the Twelfth Congress of the Communist Party of the Soviet Union, 4 pp.

RUSSIAN, per, Zhur Anal Khim, Vol XVI, No 6, Nov/Dec 1961, pp 657-659.

JPRS 13788

Theory of Instruction for One Class of Discrete Perceptrons, by V. M. Glushkov, 26 pp.

RUSSIAN, per, Zhur Vycheslitel Matemat i Matemat Fiz, Vol II, No 2, Mar/Apr 1962, pp 317-335.

JPRS 13725

Natural Science and Its Practical Application, by Ho Tso-hsiu, 13 pp.

CHINESE, per, Hung-ch'i, No 7, 1 Apr 1962, p 24-28.

JPRS 13723

Decisions Regarding the Academy of Sciences of the Mongolian People's Republic, 5 pp.

MONGOLIAN, np, Unen, 28 Mar 1962, p 1.

JPRS 13753

INFORMATION RECEIVED DURING MAY
ON COVER-TO-COVER TRANSLATIONS

*Akusticheskiy Zhurnal, Vol VII, No 4, 1961.	AIP Sov Phys-Acoustics Vol VII, No 4
Atomnaya Energiya, Vol X, No 5, 6; Vol XI, No 1-2, 1961.	CB
*Avtomatika i Telemekhanika, Vol XXII, No 10, 11, 1961.	ISA
Biokhimiya, Vol XXVI, No 5, 1961.	CB
Byulleten' Eksperimental'nnoy Biologii i Meditisiny, Vol LIII, No 9, 1961.	CB
Byulleten' Izobreteniy, No 23, 24, 1961.	Derwent Information Service
Byulleten' Izobreteniy, No 1, 1962.	Derwent Information Service
Doklady Akademii Nauk SSSR, (Chemistry Section), Vol CXXXVIII, Nos 1-6, 1961.	CB
*Doklady Akademii Nauk SSSR, (Biological Sciences Sections), Vol CXL, Nos 1-6, 1961.	AIBS
*Doklady Akademii Nauk SSSR, (Physical Chemistry Section), Vol CXL, Nos 1-6, 1961.	CB
Doklady Akademii Nauk SSSR, (Soviet Mathe- matics), Vol CXL, Nos 1-6, 1961.	Amer Math Soc
Doklady Akademii Nauk SSSR, (Physics Sections), Vol CXLI, Nos 1-3, 1961.	AIP Sov Phys - Dok Vol VI, No 11
Elektrosvyaz', No 10, 11, 1961.	AIEE
Fizika Tverdogo Tela, Vol III, No 11, 1961.	AIP Sov Phys - Solid State Vol III, No 11

* Geodeziya i Kartografiya, No 3-12, 1960; No 5-6, 1961.	AGU
Geologiya Nefti i Gaza, Vol IV, No 1-A, 1-B, 1960.	RRG
Translations From Hua-hsueh Hsueh-pao, Vol XXVI, No 3, June 1960, (DC-6816).	*JPRS
Izmeritel'naya Tekhnika, No 10, 1961.	ISA
Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk, No 8, 9, 1961.	CB
* Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, Vol XXV, No 3-5, 1961.	CTT
Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, No 1, 2, 1961.	AGI
Izvestiya Vysshikh Uchebnykh Zavedniy, MVO, Radiofizika, Vol IV, No 5, 1961.	JPRS 13656
Izvestiya Vysshikh Uchebnykh Zavedeni,. Radiofizika, Vol V, No 1, 1962, (NY-7093).	*JPRS
Izvestiya Vysshikh Uchebnykh Zavedniy MVO, Radiotekhnika, Vol IV, No 5, 1961.	JPRS 13687
Izvestiya Vysshikh Uchebnykh Zavedniy MVO, Radiotekhnika, Vol IV, No 6, Nov/Dec 1961.	JPRS 13849
Izvestiya Vysshikh Ucheb Zaved, Tekhnologiya Tekstil'noy Promyshlennosti, No 5 (18), 1960.	Textile Institut
Kauchuk i Rezina, Vol XX, No 8, 1961.	RAPRA
Koks i Khimiya, No 11, 1961.	CTRA
Liteynoye Proizvodstvo, No 11, 1961.	BCIRA
Meditinskaya Radiologiya, Vol VI, No 11, 1961.	JPRS 13400

* Metallovedeniye i Termicheskaya Obrabotka Metallov, Nos 4-6, 1960.	Acta Metallurgica
* Mikrobiologiya, Vol XXX, No 5, 1961.	AIBS
Nukleonika, Vol III, No 1, 1958.	AEC-Tr-4144 PL-480
Nukleonika, Vol III, No 2, 1958.	AEC-Tr-4145 PL-480
Nukleonika, Vol III, No 3, 1958.	AEC-Tr-4146 PL-480
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Nukleonika, Vol IV, No 2, 1959,	AEC-Tr-4151 PL-480
Nukleonika, Vol IV, No 3, 1959.	AEC-Tr-4152 PL-480
* Priborostroyeniye, No 11, 12, 1961.	Taylor & Francis Ltd.
Problemy Gematologii i Perelivaniya Krovi, Vol VI, No 3, 1961.	PP
Radiobiologiya, No 2-3, 1962.	*AEC
Radiotekhnika, No 11, 12, 1961.	AIEE
* Radiotekhnika i Elektronika, No 9-11, 1961.	AIEE
Stal, No 1, 1962.	BISI
Stanki i Instrument, Vol XXXII, No 9, 1961.	PERA

* Teoriya Veroyatnostey i yeye Primeneniya, Vol VI, No 1, 1961.	SIAM
Trudy Instituta Vysshey Nervnoy Deyatel'nosti, Seriya Fiziologicheskaya, Vol III, 1959.	OTS 61-31018 PL-480 (PST No 539)
Tsitologiya, Vol III, No 6, Nov/Dec 1961, pp 629-728.	JPRS 13677
* Tsvetnye Metally, Vol II, No 4/5, 1961.	Primary Sources
Tyl i Snabzheniye Sovetskikh Vooruzhennykh Sil, Nos 1-12, 1961.	ACSI H-6908 ID 2166459
Uspekhi Fizicheskikh Nauk, Vol LXXV, Sep- Oct 1961.	AIP Sov Phys - Uspekh Vol IV, No 5
Uspekhi Matematicheskikh Nauk, Vol XVI, No 5, 1961.	Cleaver-Hume Press
Vestnik Mashinostroyeniya, Vol XLI, No 9, 1961.	PERA
Vestnik Svyazi, No 12, 1961.	JPRS 13628
Vestnik Svyazi, No 4, 1962, (NY-7068).	*JPRS
Vestnik Svyazi, No 5, 1962, (NY-7125).	*JPRS
* Voprosy Onkologii, Vol VII, No 6/7, 1961.	Elsevier Pub Co
* Voprosy Virusologii, Vol VI, No 2, 3, 1961.	PP
* Zavodskaya Laboratoriya, Vol XXVII, No 8 & 10, 1961.	ISA
Zhurnal Analiticheskoy Khimii, Vol XVI, No 5, 1961.	CB
Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, Vol XLI, No 4, 1961.	AIP Sov Phys - JETP Vol XIV, No 4

Zhurnal Fizicheskoy Khimii, Vol XXXV, No 8, 1961.	Cleaver-Hume Press
Zhurnal Mikrobiologii Epidemiologii i Immunobiologii, Vol XXXII, No 3, 1961.	PP
Zhurnal Neorganicheskoy Khimii, Vol III, No 9, 1958.	AEC-Tr-4457 PL-480
* Zhurnal Neorganicheskoy Khimii, Vol III, No 10, 1958.	AEC-Tr-4458 PL-480
* Zhurnal Neorganicheskoy Khimii, Vol III, No 12, 1958.	AEC-Tr-4460 PL-480
* Zhurnal Neorganicheskoy Khimii, Vol VI, No 5, 6, 1961.	Cleaver-Hume Press Ltd.
Zhurnal Prikladnoy Khimii, Vol XXXIV, No 9, 1961.	CB
Zhurnal Strukturnoy Khimii, Vol II, No 5, 1961.	CB
Zhurnal Tekhnicheskoy Fiziki, Vol XXXI, No 11, 1961.	AIP Sov Phys - Tech Phys Vol VI, No 11

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Central Intelligence Agency



Washington, D.C. 20505

7 September 2004

Ms. Roberta Schoen
Deputy Director for Operations
Defense Technical Information Center
7725 John J. Kingman Road
Suite 0944
Ft. Belvoir, VA 22060

Dear Ms. Schoen:

In February of this year, DTIC provided the CIA Declassification Center with a referral list of CIA documents held in the DTIC library. This referral was a follow on to the list of National Intelligence Surveys provided earlier in the year.

We have completed a declassification review of the "Non-NIS" referral list and include the results of that review as Enclosure 1. Of the 220 documents identified in our declassification database, only three are classified. These three are in the Release in Part category and may be released to the public once specified portions of the documents are removed. Sanitization instructions for these documents are included with Enclosure 1.

In addition to the documents addressed in Enclosure 1, 14 other documents were unable to be identified. DTIC then provided the CDC with hard copies of these documents in April 2004 for declassification review. The results of this review are provided as Enclosure 2.

We at CIA greatly appreciate your cooperation in this matter. Should you have any questions concerning this letter and for coordination of any further developments, please contact Donald Black of this office at (703) 613-1415.

Sincerely,

Nancy J. Alcivar

Sergio N. Alcivar
Chief, CIA Declassification Center,
Declassification Review and Referral
Branch

Enclosures:

1. Declassification Review of CIA Documents at DTIC (with sanitization instructions for 3 documents)
2. Declassification Status of CIA Documents (hard copy) Referred by DTIC (with review processing sheets for each document)

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Processing of OGA-Held CIA Documents

The following CIA documents located at DTIC were reviewed
by CIA and declassification guidance has been provided.

OGA Doc ID	Job Num	Box	File#	Doc#	Doc ID	Document Title	Pub Date	Pages	Decision	Proc Date
AD0834505	78-03109A	49	1	1	36	Consolidated Translation Survey For December 1960	12/1/1960	240	Approved For Release	3/25/2004
AD0834506	78-03109A	49	1	2	37	Consolidated Translation Survey For January 1961	1/1/1961	318	Approved For Release	3/25/2004
AD0834340	78-03109A	49	1	3	38	Consolidated Translation Survey For February 1961	2/1/1961	363	Approved For Release	3/25/2004
AD0834341	78-03109A	49	1	4	39	Consolidated Translation Survey For March 1961	3/1/1961	206	Approved For Release	3/25/2004
AD0834342	78-03109A	49	1	5	40	Consolidated Translation Survey For April 1961	4/1/1961	411	Approved For Release	3/25/2004
AD0834343	78-03109A	49	1	6	41	Consolidated Translation Survey For May 1961	5/1/1961	327	Sanitized	3/25/2004
AD0834344	78-03109A	49	1	7	42	Consolidated Translation Survey For June 1961	6/1/1961	364	Approved For Release	3/25/2004
AD0834345	78-03109A	49	1	8	43	Consolidated Translation Survey For July 1961	7/1/1961	303	Approved For Release	3/25/2004
AD0834346	78-03109A	50	1	1	44	Consolidated Translation Survey For August 1961	8/1/1961	349	Approved For Release	3/25/2004
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AD0834348	78-03109A	50	1	3	46	Consolidated Translation Survey For October 1961	10/1/1961	252	Approved For Release	3/25/2004
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AD0834351	78-03109A	50	1	6	49	Consolidated Translation Survey For January 1962	1/1/1962	341	Approved For Release	3/25/2004
AD0834352	78-03109A	50	1	7	50	Consolidated Translation Survey For February 1962	2/1/1962	323	Approved For Release	3/25/2004
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AD0834355	78-03109A	51	1	3	53	Consolidated Translation Survey For May 1962	5/1/1962	387	Approved For Release	3/25/2004
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AD0834358	78-03109A	51	1	6	56	Consolidated Translation Survey For August 1962	8/1/1962	475	Approved For Release	3/25/2004
AD0834359	78-03109A	52	1	1	57	Consolidated Translation Survey For September 1962	9/1/1962	245	Approved For Release	3/25/2004
AD0834360	78-03109A	52	1	2	58	Consolidated Translation Survey For October 1962	10/1/1962	228	Approved For Release	3/25/2004
AD0834361	78-03109A	52	1	3	59	Consolidated Translation Survey For November 1962	11/1/1962	274	Approved For Release	3/25/2004
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